

JORDAN VALLEY WATER CONSERVANCY DISTRICT WEST JORDAN, UTAH

JORDAN VALLEY WATER TREATMENT PLANT FILTER AND CHEMICAL FEED UPGRADES

JVWCD PROJECT #4289

ADDENDUM NO. 4
TO THE
CONTRACT DOCUMENTS

MAY 2025





Bidders on the above-named project are hereby notified that the Bidding Documents are modified as indicated below. Bidders are required to acknowledge receipt of this Addendum in the space provided on the Document C-1 Bid Form.

This addendum consists of the following items:

ADDENDUM ITEM	NO. OF PAGES
This document (including cover page)	6
Drawing Markups	25
Answers to Bidder Questions	2
09960 Attachment A	7

This Addendum shall become part of the Contract and provisions of the Contract apply.

NOTICE: The bid date has been changed by Addendum 2 to 2:00 pm on June 12, 2025.

All RFI's should be submitted before 2:00 pm on May 29, 2025.

SPECIFICATIONS

The following sections are modified as indicated below.

- 1. SECTION 09960 HIGH-PERFORMANCE COATINGS:
 - a. **REPLACE** Attachments A and B in their entirety.
- 2. SECTION 11256 POLYMER BLENDING AND FEED EQUIPMENT: DRY:
 - a. **REMOVE** the following language from paragraph 1.01.D.4.a:
 - 1. "and Section 17622 Weight Measurement: Platform Scale and Load Cells".
 - b. **REMOVE** paragraph 2.01.B.1.g in its entirety.
 - c. **REMOVE** paragraph 2.13.B in its entirety.
 - d. **REPLACE** paragraph 2.13.C with the following:
 - C. Mix tank shall be constructed of fiberglass and shall be cylindrical, sloped flat, open top with 4 mixing baffles. Fiberglass tanks shall meet the requirements as specified in Section 13206A Fiberglass Reinforced Plastic Aboveground Storage Tanks.
 - e. **REMOVE** the following paragraphs: 2.13.C.1, 2.13.C.2, and 2.13.C.3.
- 3. SECTION 13206A FIBERGLASS REINFORCED PLASTIC ABOVEGROUND STORAGE TANKS:
 - a. **REPLACE** the following language from paragraph 2.02.B:
 - "Tank filling: Design shall include any necessary accommodations to allow for pneumatic unloading of chemicals from tanker truck, where shown on the Drawings. This unloading process involves pressurizing the tanker truck to 15 psi

and pushing chemical into the storage tank to fill it. At the end of the filling operation, as the truck empties, the tank may be exposed to this pressurized vessel for a brief period of time."

- b. ADD the following paragraph 2.02.K:
 - K. PEA Mix/Age Tanks
 - 1. General: Suitable for storage of polymer (PEA) solution, stored at 0.1 to 0.4 percent concentration. Design tanks for liquid specific gravity up to 1.1 with a minimum internal pressure rating of 0.5 inches WC.
 - 2. Day Tank: TNK-6905, TNK6915.
 - a. Number of units: 2.
 - b. Required Storage Volume (each tank): 2,000 gallons (nominal).
 - c. Diameter: 8 feet.
 - d. Straight Shell Length: 6 feet.
 - e. Orientation: Vertical, cylindrical, sloped flat, open top
 - f. Access manway and nozzles, as indicated on the Drawings.
 - g. Tank Connections:
 - 1) Drain: One 2-inch on tank bottom.
 - 2) Outlet: One 4-inch on tank bottom.
 - 3) Overflow: One 4-inch.
 - h. Appurtenances:
 - 1) Flanged ports for pressure transducers, as required.
 - 2) Welded clips for attachment of overflow pipe.
 - i. Level gauge.
 - 1) 3-inch flanged port reserved for the sight level.
 - j. Slope bottom of tank to the outlet drain to allow for full drainage of tank contents.
- c. **REPLACE** the following language from paragraph 2.06.A.1:
 - "Provide tanks with heater pads or tape for freeze protection, as indicated in the drawings and the table below."
- 4. SECTION 13226 FILTER MEDIA:
 - a. **ADD** the following line to paragraph 2.04.A and 2.04B (both locations):
 - 1. Red Flint Sand and Gravel, LLC
- SECTION 16235 SINGLE SPARK-IGNITED GENERATOR SET:
 - a. **REPLACE** the following language from paragraph 2.02 B:
 - "Provide a complete automatic standby spark-ignited natural gas or combination natural gas/LP vapor fueled engine driven generator system with necessary components to make a complete and operating engine-driven power supply."
 - b. **REPLACE** the following language from section 2.02 C:

- "Include the supply of such minor details of electrical, plumbing, or mechanical work not specified or indicated on the Drawings, which are necessary for the successful operation of the <u>natural gas or</u> combination natural gas/LP vapor fueled engine-driven generator required by these Specifications."
- c. **REPLACE** the following language from paragraph 2.06 B.1:
 - "Engine-driven generator consists of a spark-ignited, natural gas or combination natural gas/LP vapor -fueled engine directly coupled to an electric generator providing continuous electric power for the duration of any power failure of the normal utility power supply."
- d. **REPLACE** the following language from paragraph 2.07 B.4.m.1)c):
 - 1. "Suitable for use on natural gas or combination natural gas/LP vapor-fueled engines."
- 6. SECTION 16990B CONDUIT SCHEDULE AREA 30:
 - a. **REMOVE** the reference to drawing 30E04 from the following conduits:

1. C-30-703

4. C-30-853

7. S-30-803

2. C-30-753

5. S-30-703

8. S-30-853

3. C-30-803

6. S-30-753

b. **REMOVE** the reference to drawing 30E05 from the following conduits:

1. C-30-403

5. C-30-603

9. S-30-503

2. C-30-453

6. C-30-653

10. S-30-553

3. C-30-503

7. S-30-403

11. S-30-603

4. C-30-553

8. S-30-453

12. S-30-653

- 7. SECTION 16990F CONDUIT SCHEDULE AREA 63:
 - a. **REMOVE** conduits C-63-075 and C-63-076 in their entirety.
- 8. SECTION 16990G CONDUIT SCHEDULE AREA 65:
 - a. **REPLACE** conduit C-65-009 with the following:

C-65-009	65E02	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR:	XS-6560
0 00 000	00202	0.10	-	# 14	74111144 2		0.14	70 H 144 Z	1.13.	AC 0000
				l				I	TO:	MALLEGO
									10.	WAC-0300
										4 #44 >> VC CCCO CONTROL
				l				I		4 #14 >> \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

- b. **REMOVE** conduits C-65-039, C-65-040, and C-65-042 in their entirety.
- c. **REMOVE** the duplicate entries for conduits L-65-501, L-65-502, and L-65-503 on specification page 4, above conduit L-65-030.

L-65-023	65E04	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-6563 TO: RTU-CS 2 #12 >> FIT-6563 POWER
X-65-501	65E05	0.75	/2/	#18	XHHW-2	//	#10	XHHW-2	FR:
X-65-502	65E05	0.75*	/2/	#10	XHHW-2		#10	XHHW-2	FR:
K-65-503	65E05	0.75*	/2/	#10	XHHW-2		#10	XHHW-2	FR:
L-65-030	65E02	1"	3	#6	XHHW-2	1	#10	XHHW-2	FR: PNL-UPS-CS TO: UPS-CS 3 #6 >> PNL-UPS-CS POWER
L-65-031	65E02	1"	3	#6	XHHW-2	1	#10	XHHW-2	FR:
L-65-032	65E02	1"	3	#6	XHHW-2	1	#10	XHHW-2	FR: UPS BYPASS DISC TO: PNL-CS 3 #6 >> UPS BYPASS DISC POWER
L-65-501	65E05	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: HTU-6501 TO: PNL-CS 2 #10 >> HTU-6501 CONTROLLER POWER

d. **REPLACE** conduits P-65-020 and P-65-021 with the following:

P-65-020	65E05	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR:				PMP-6511
			4	#14	XHHW-2				TO:				MCC-CS
										3	#12	>>	PMP-6511 POWER
										2	#14	>>	PMP-6511 MWH CONTROL
										2	#14	>>	PMP-6511 TSH CONTROL
P-65-021	65E05	0.75"	3	#12	XHHW-2	1	#12	XHHW-2					PMP-6521
			3 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2					
			3 4			1	#12	XHHW-2	FR:	3			PMP-6521
			3 4			1	#12	XHHW-2	FR:	3 2	#12	>>	PMP-6521 MCC-CS
			3 4			1	#12	XHHW-2	FR:	3 2 2	#12 #14	>>	PMP-6521 MCC-CS PMP-6521 POWER

- 9. SECTION 16990J CONDUIT SCHEDULE AREA 69:
 - a. **REMOVE** the following conduits in their entirety.
 - 1. C-69-405

4. C-69-515

7. S-69-505

2. C-69-415

5. C-69-710

8. S-69-415

3. C-69-505

6. L-69-710

9. S-69-710

- 10. SECTION 16990K CONDUIT SCHEDULE AREA 71:
 - a. **REPLACE** conduits C-71-001, L-71-005, and S-71-003 with the following:

C-71-001	69E02	0.75"	6	#14	XHHW-2	1	#14	XHHW-2	FR:	LCP-7100
									TO:	RTU-PEA
										6 #14 >> LCP-7100 CONTROL
1.74.004	COE 00	0.751		#40	VI II BAL O	-	#40	MI II BALO	IED	LOD 7400
L-71-001	69E02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2		LCP-7100
									TO:	RTU-PEA
										2 #12 >> LCP-7100 POWER
1 74 005	7.500			"10					Ico	DTI DT
L-71-005	71E02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2		RTU-PEA
									TO:	PNL-PEA
										2 #12 >> RTU-PEA POWER
S-71-003	69E02	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR:	LCP-7100
									TO:	RTU-PEA
										2 2/CS-#16 >> LCP-7100 SIGNAL

- 11. SECTION 17101B SPECIFIC CONTROL STRATEGIES CAUSTIC SODA:
 - a. **REPLACE** title of the Specification to the following:

SPECIFIC CONTROL STRATEGIES - CHEMICALS

b. **REMOVE** paragraph 3.08.E.2.d in its entirety.

- c. **REPLACE** paragraph 3.08.E.3.b.1) with "None."
- 12. SECTION 17622 WEIGHT MEASUREMENT: PLATFORM SCALE AND LOAD CELLS:
 - a. **REMOVE** the following datasheets in their entirety from Attachment A:
 - 1) WIT-6905 (WE-6905) [page 3]
 - 2) WIT-6915 (WE-6915) [page 4]
 - REPLACE the following information in the datasheet WIT-7105 (WE-7105) [page 5] in Attachment A:
 - 1) **SERVICE** PEC DAY TANK WEIGHT
 - 2) WEIGHT RANGE 0 6,000 LBS

DRAWINGS

Note to Bidders on addenda drawings: The addenda drawings make use of color coding to show revisions made by addendum. The following color codes are used, for clarity: Red is used to highlight additions, corrections, or changes that are incorporated into the drawing.

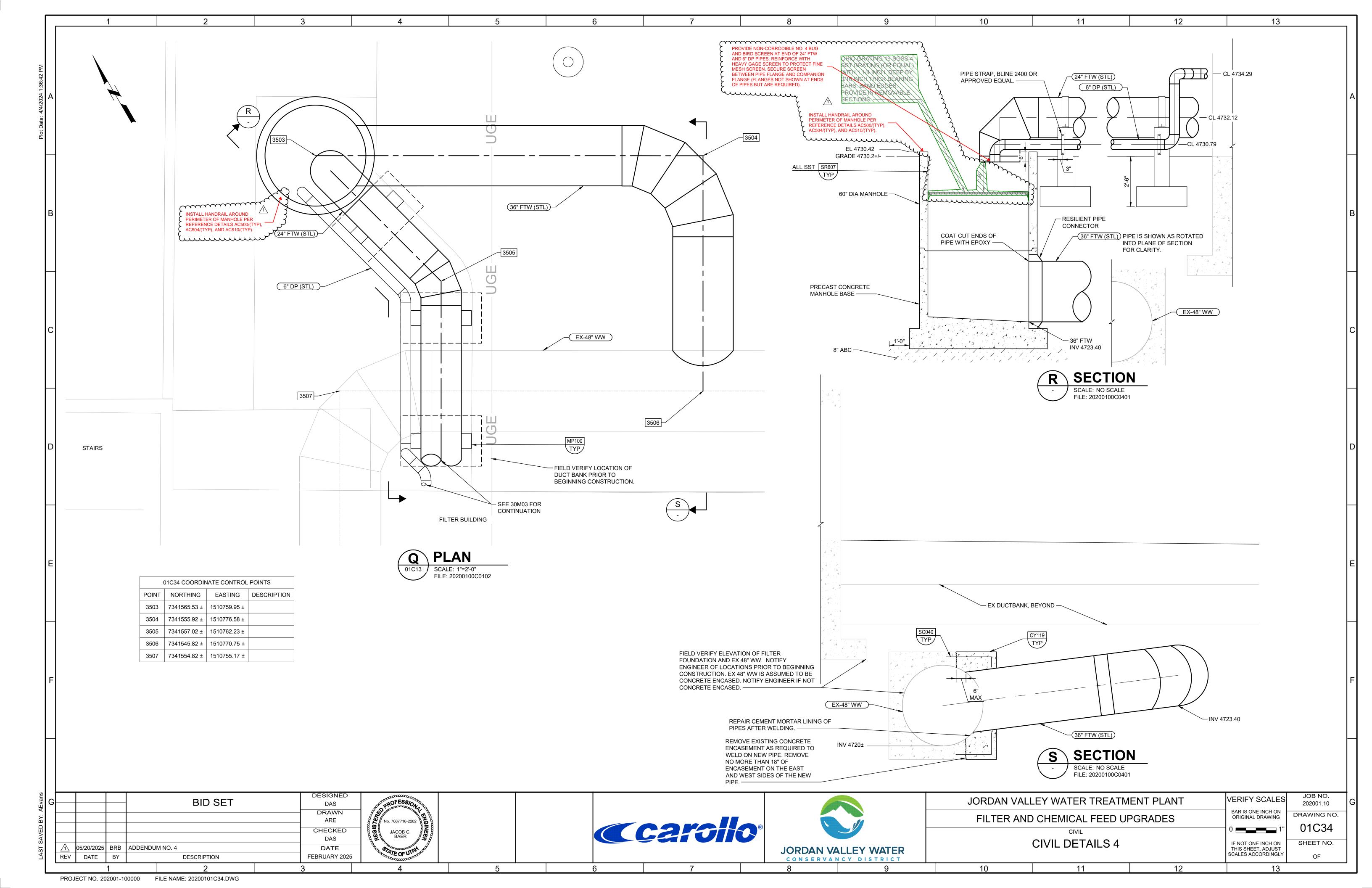
Green is used to indicate items that shall be removed or deleted from the drawing. Blue is used for comments, notes, clarifications, or instructions that may not be physically added to the drawing itself.

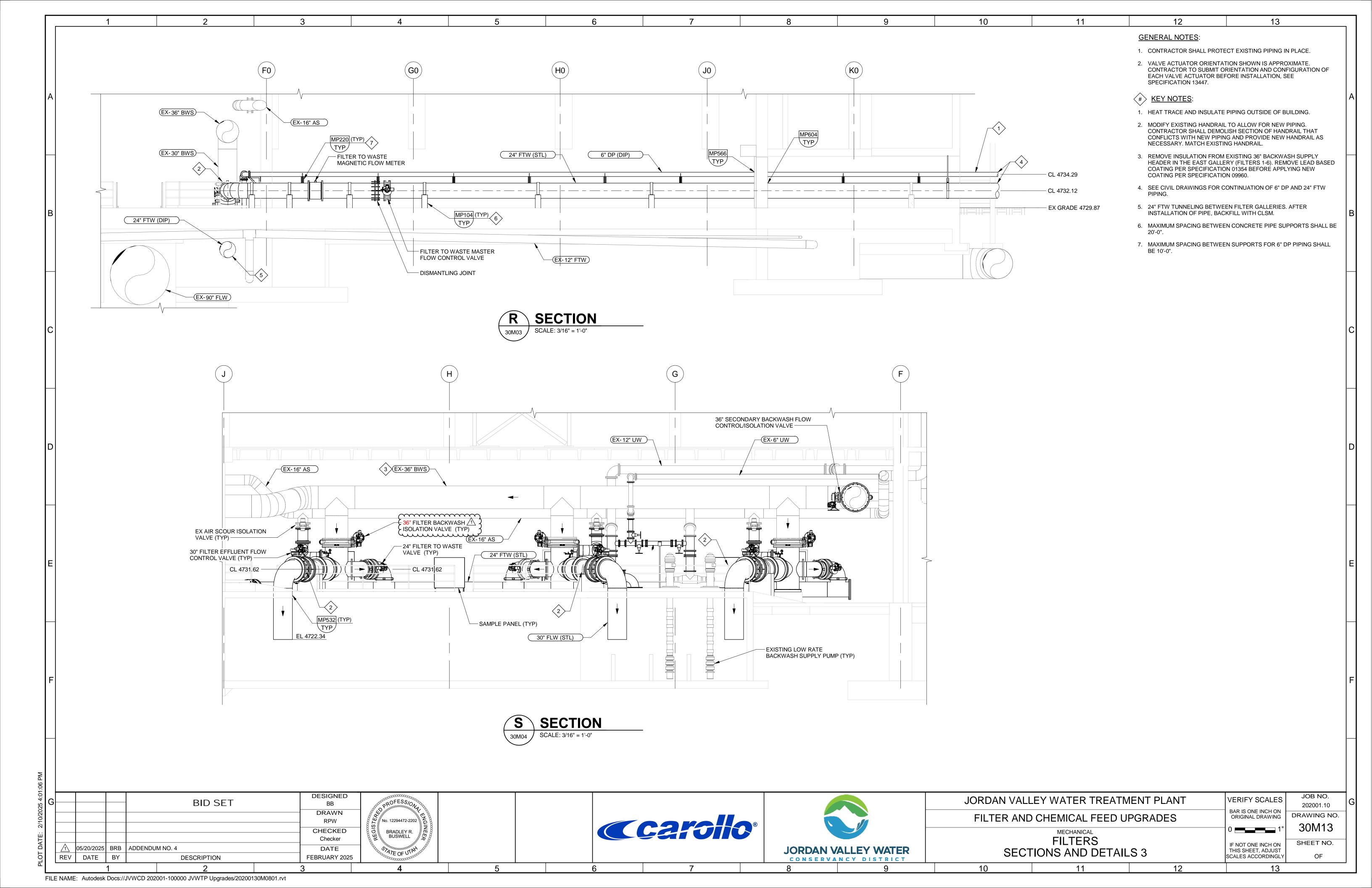
The following drawings are modified as indicated below.

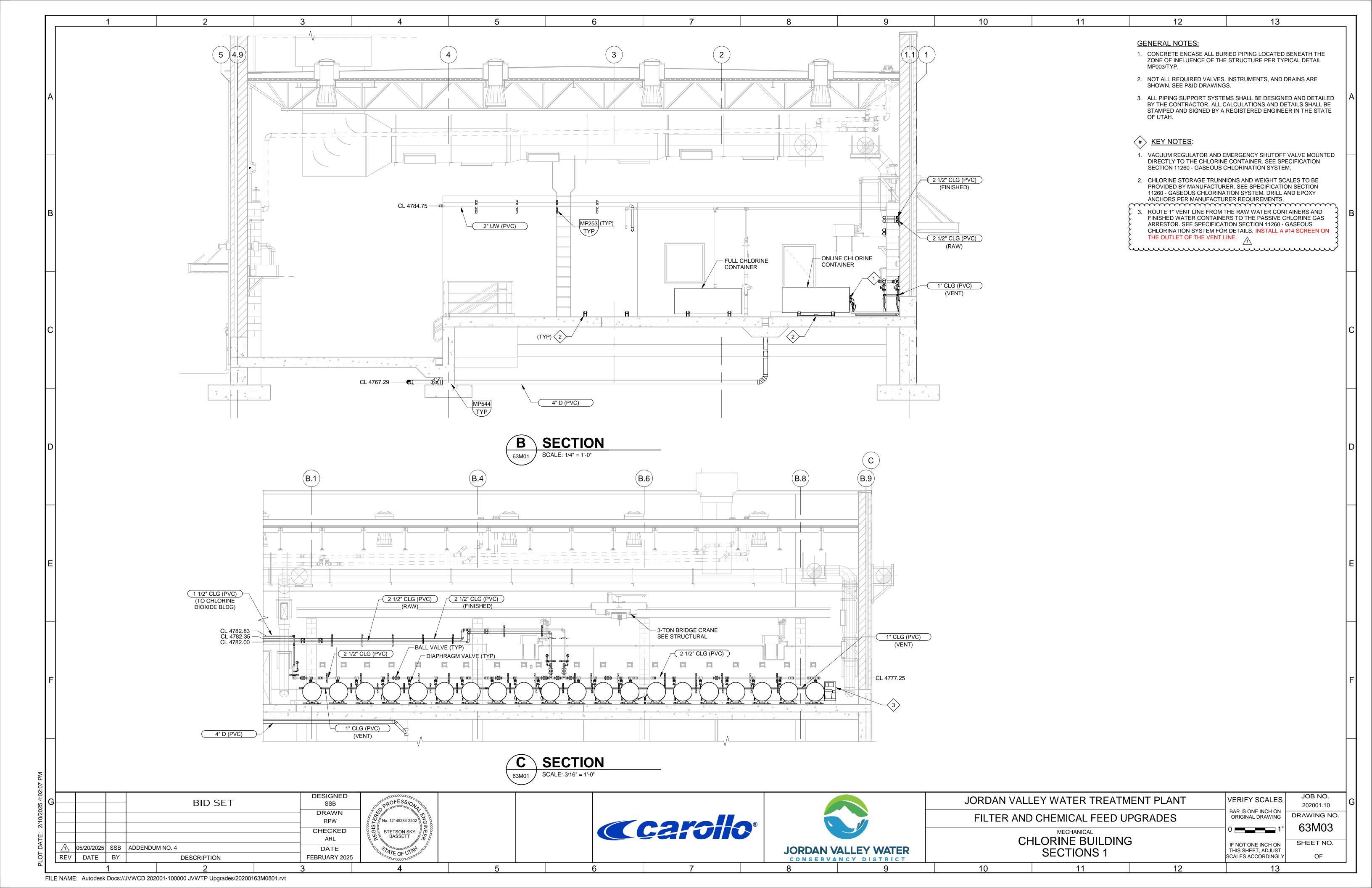
1. **REPLACE** the following drawings in their entirety with the drawings attached:

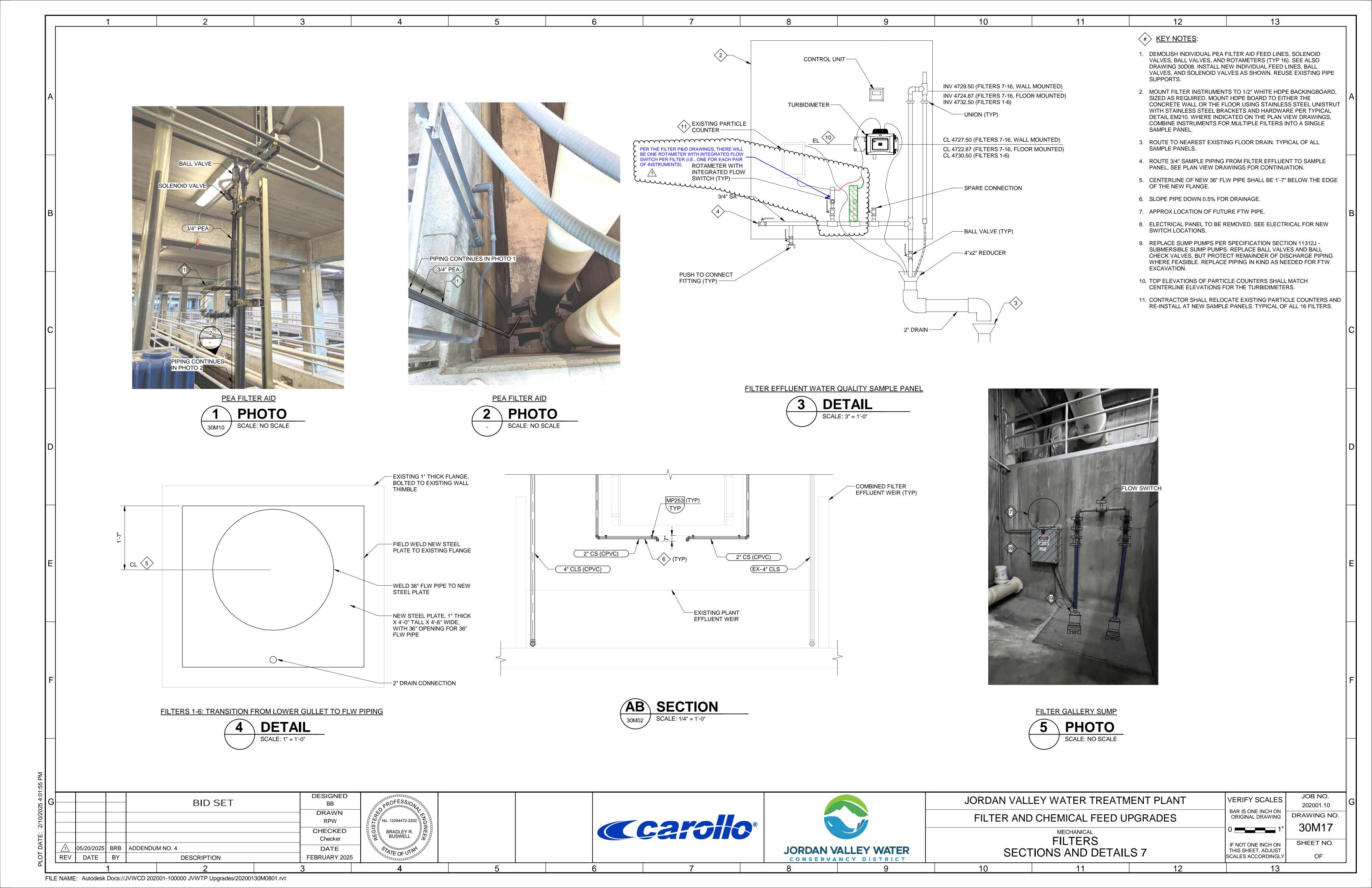
a.	01C34	j.	01E03
b.	30M13	k.	30E04
c.	30M17	I.	30E05
d.	63M03	m.	30E06
e.	65M04	n.	30E13
f.	69M03	ο.	30E16
g.	69M04	p.	63E08
h.	00GH02	q.	63E02
i.	00GE06	r.	65E05

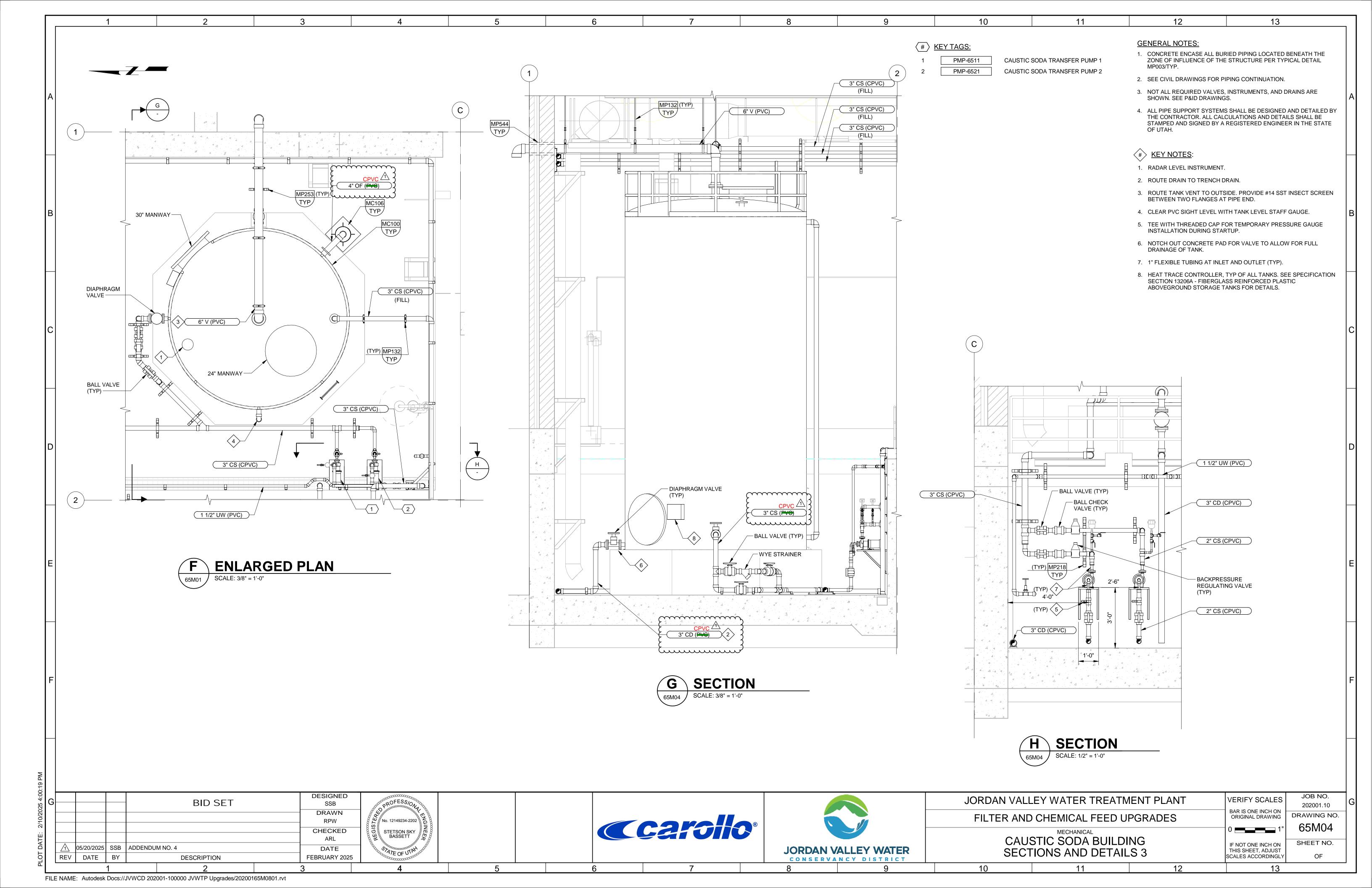
s. 65E06 t. 69E02 u. 69E03 v. 71E01 w. 69N01 x. 69N02 y. 71N02

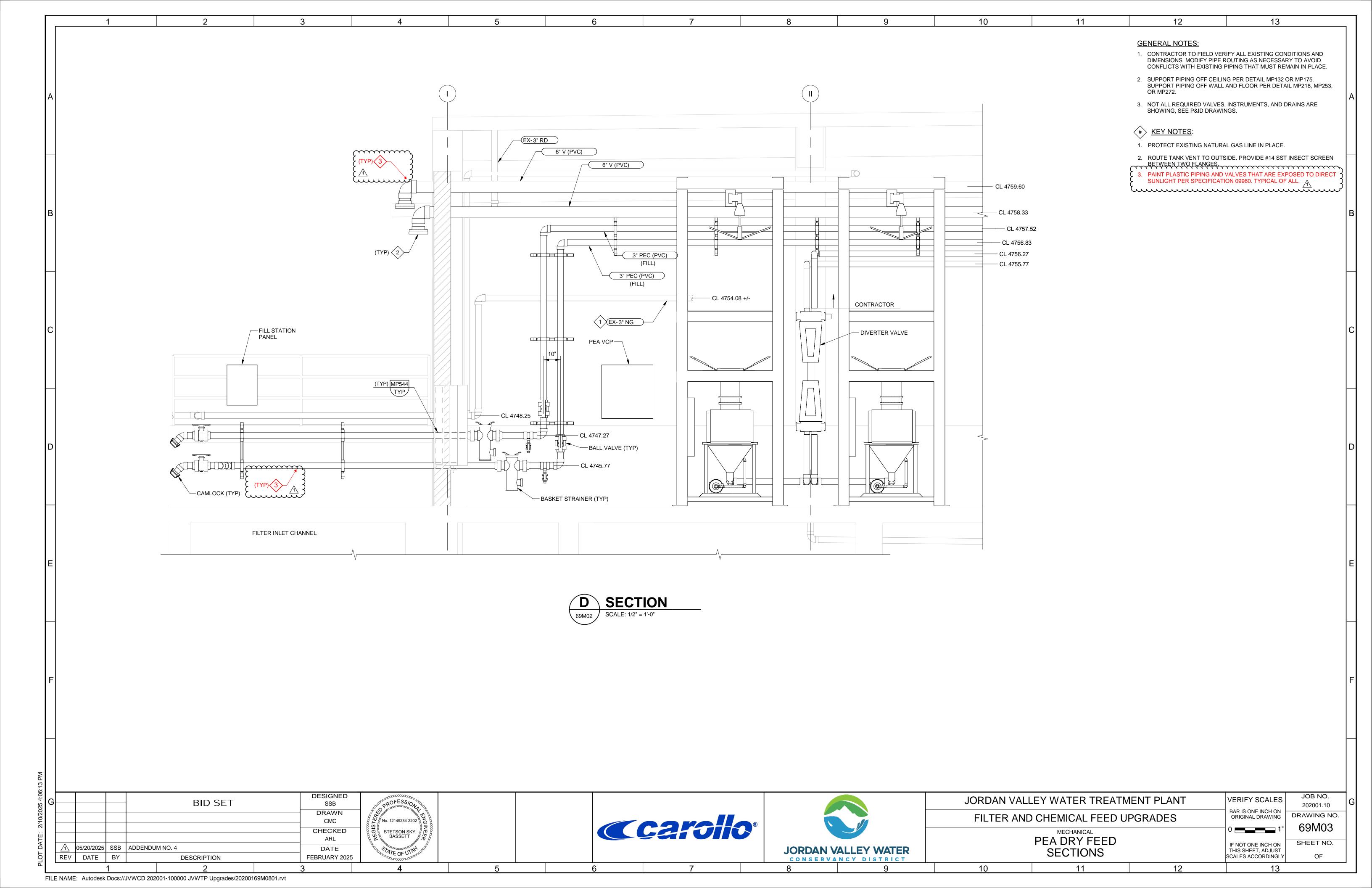


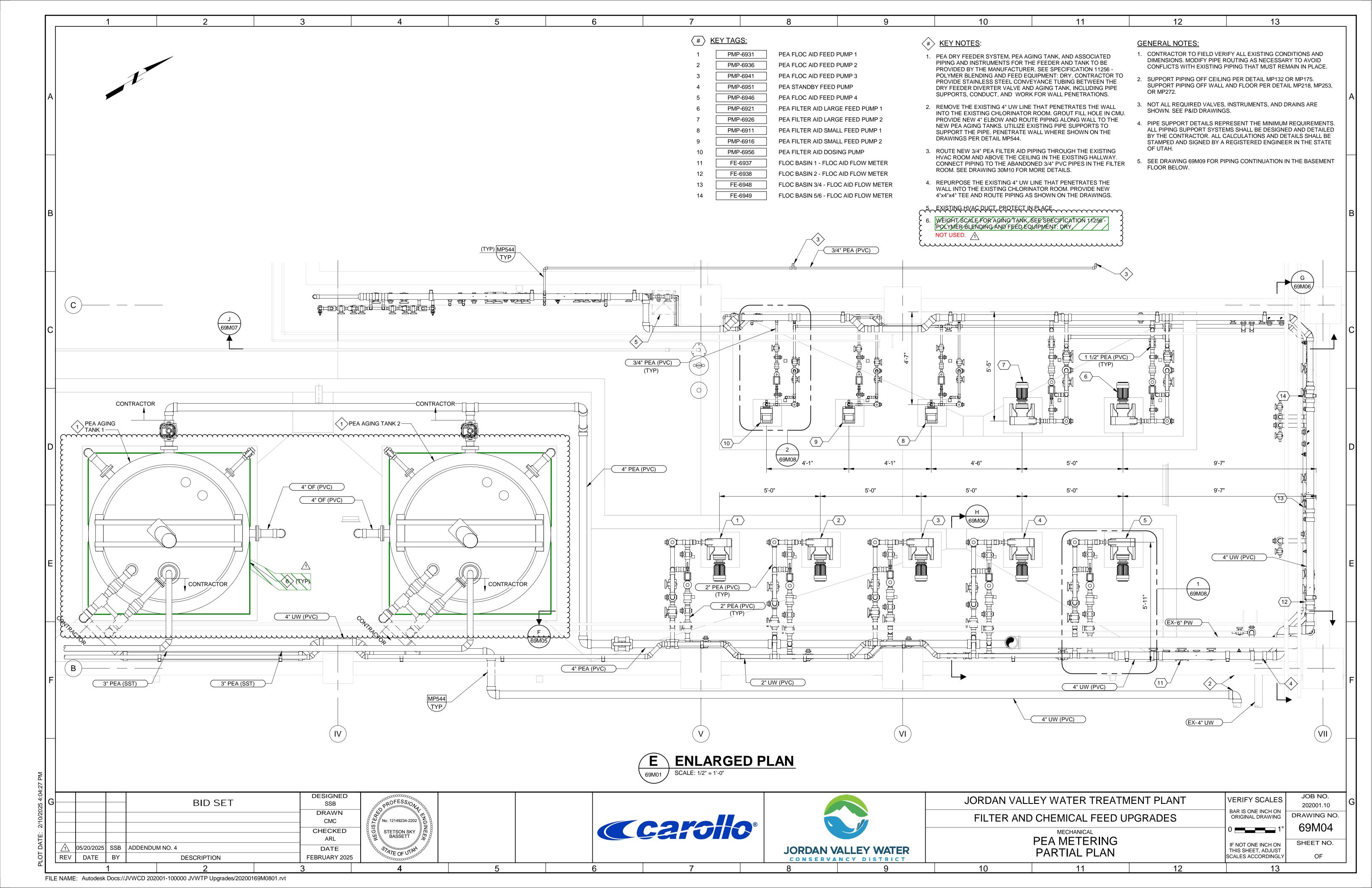












HEAT PUMP SCHEDULE FILTER HEATING DATA ELECTRICAL DATA **COOLING DATA** DATA **ESP** AIRFLOW | WEIGHT NET SENSIBLE **AREA SERVED NET TOTAL** MECHANICAL HEATING NOTES **EQUIPMENT TAG** BASIS OF DESIGN OA DB EAT DB MOCP (CFM) (IN. W.C.) OA DB EAT DB EAT WB LAT DB LAT WB MCA CAPACITY CAPACITY | VOLTAGE | PHASE CAPACITY **TYPE** (°F) (°F) (°F) (°F) (°F) (°F) (AMPS) (AMPS) (MBH) (MBH) (MBH) CHLORINE BUILDING PER MFR 99 80 67 56 55 24 WASHABLE MITSUBISHI TPKA0A24 AHU-6351 20.6 70 13.6 208 1, 3, 4, 5, 7 ELECTRICAL ROOM CHLORINE BUILDING AHU-6352 810 PER MFR 99 80 67 56 55 24 70 13.6 WASHABLE 208 MITSUBISHI TPLA0A24 2, 3, 5, 7 60 20.6 ELECTRICAL ROOM CAUSTIC BUILDING 67 56 55 70 WASHABLE AHU-6551 775 PER MFR 80 24 13.6 208 MITSUBISHI TPKA0A24 50 99 20.6 1, 3, 4, 5, 7 ELECTRICAL ROOM CAUSTIC BUILDING 810 67 56 55 AHU-6552 60 PER MFR 99 80 24 20.6 70 13.6 WASHABLE 208 MITSUBISHI TPLA0A24 2, 3, 5, 7 ELECTRICAL ROOM CHLORINE BUILDING HP-6351 99 24 13.6 26 20.6 208 19 MITSUBISHI TRUZA024 6, 7, 8, 9 ELECTRICAL ROOM CHLORINE BUILDING HP-6352 160 99 20.6 13.6 208 26 19 MITSUBISHI TRUZA024 6, 7, 8, 9 ELECTRICAL ROOM CAUSTIC BUILDING HP-6551 160 24 26 99 20.6 13.6 208 MITSUBISHI TRUZA024 6, 7, 8, 9 19 ELECTRICAL ROOM CAUSTIC BUILDING 160 99 24 20.6 26 HP-6552 13.6 208 19 MITSUBISHI TRUZA024 6, 7, 8, 9 ELECTRICAL ROOM NOTES: 1 WALL MOUNTED MINI SPLIT AIR HANDLER. 6 GRADE MOUNTED MINI SPLIT SYSTEM HEAT PUMP. 7 MINI SPLIT HEAT PUMP UNIT TO POWER ASSOCIATED AIR HANDLER. 2 CEILING SUSPENDED MINI SPLIT AIR HANDLER. & PROVIDE WITH COATING FOR MARINE ENVIRONMENTS......

5

3 THERMOSTAT PROVIDED BY UNIT MANUFACTURER.

4 MANUFACTURER TO PROVIDE WALL MOUNTING BRACKET KIT. 5 PROVIDE WITH INTEGRAL CONDENSATE DRAIN LIFT PUMP.

3

 Θ ELECTRICAL CONTRACTOR WILL PROVIDE A NEMA 4X DISCONNECT FOR THE OUTDOOR HEAT PUMP. \Im

							F	AN SC	HEDUL	E						
EQUIPMENT TAG	AREA SERVED	FAN TYPE	AIR FLOW	WEIGHT	ESP	FAN	NOISE			МОТО	R	DRIVE	ELECTRIC	AL DATA	BASIS OF DESIGN	NOTES
LQUIFWILNT TAG	ANLAGENVED	FANTIFE	(CFM)	(LB)	(IN. W.C.)	RPM	(SONES)	HP	AMPS	RPM	ENCLOSURE	TYPE	VOLTAGE	PHASE	BASIS OF DESIGN	NOTES
EF-4151	BACKWASH VAULT	TYPE 6	200	6	0.5	2632	PER MFR	-	0.59	PER MFR	PER MFR	PER MFR	120	1	FANTECH FR-150	11
EF-6355	CHLORINE BUILDING CHLORINE STORAGE ROOM	TYPE 2	15800	560	1	530	19	5	-	1725	TEFC	BELT	480	3	GREENHECK CUBE-420-50	1, 2, 3, 4, 5, 6, 8, 9
EF-6356	CHLORINE BUILDING CHLORINE STORAGE ROOM	TYPE 2	15800	540	0.5	454	16	3	-	1725	TEFC	BELT	480	3	GREENHECK CUBE-420-30	1, 2, 3, 4, 5, 6, 8, 9
EF-6357	CHLORINE BUILDING CHLORINATOR ROOM	TYPE 7	550	90	0.5	1774	15	1/4	-	1725	TEFC	BELT	208	1	GREENHECK BSQ-80	3, 4, 5, 8 10 9
EF-6554	CAUSTIC SODA STORAGE ROOM	TYPE 2	9400	280	1	778	20	3	-	1725	TEFC	BELT	480	3	GREENHECK CUBE-300-30	1, 2, 3, 4, 5, 6, 8, 9
EF-6555	CAUSTIC SODA STORAGE ROOM	TYPE 3	9400	250	0.375	648	17	2	-	1725	TEFC	BELT	480	3	GREENHECK CUBE-300-20	1, 2, 3, 4, 5, 6, 8, 9
SF-6368	CHLORINE BUILDING MECHANICAL ROOM	TYPE 7	250	90	0.5	1328	9.1	1/2	-	1725	TEFC	BELT	208	1	GREENHECK BSQ-80	3, 4, 5, 8 10 9 1
SF-6556	CAUSTIC SODA STORAGE ROOM	TYPE 3	8400	400	0.375	614	0	3	-	1725	TEFC	BELT	480	3	GREENHECK RSF-180-30	2, 3, 4, 5, 6, 7, 8, 9

1 PROVIDE BIRD SCREEN.

2 PROVIDE LIFTING LUGS. 3 PROVIDE CONTROLS TO INTERLOCK WITH EQUIPMENT AS SPECIFIED IN SECTION 15936.

4 PROVIDE VIBRATION ISOLATORS.

5 PROVIDE ADJUSTABLE BELT SHEAVES AND BELT GUARD.

6 PROVIDE 36-INCH 304 STAINLESS STEEL MANUFACTURER CONSTRUCTED ROOF CURB.

7 PROVIDE ALUMINUM WASHABLE TYPE FILTERS.

8 PROVIDE PROTECTIVE COATING PER SECTION 15830.

9 MANUFACTURER TO PROVIDE DISCONNECT SWITCH AT FAN, NEMA TYPE 4X.

10 ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH AT FAN, NEMA TYPE 4X.

11 PROVIDE BACKDRAFT DAMPER, COUNTERBALANCED FOR MINIMUM PRESSURE LOSS.

											MAKE-UP AIR	UNIT SCHEDULE										
						SUP	PLY FAN					HEATING	GAS HEATING		FI	LTER		ELECTR	CAL DATA			
EQUIPMENT TAG	AREA SERVED	WEIGHT (LB)	HEAT/COOL TYPE	SA DISCHARGE LOCATION	AIRFLOW (CFM)	ESP (IN. W.C.)	MOTOR HP	MOTOR ENCLOSUR E	EAT (°F)	LAT (°F)	AIRFLOW (CFM)	MODULATING TURNDOWN RATIO	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	TYPE	THICKNESS (IN.)	MCA (AMPS)	MOP (AMPS)	VOLTAGE	PHASE	BASIS OF DESIGN	NOTES
MAU-6354	CHLORINE BUILDING	5850	HEATING	воттом	15400	1	10	TEFC	9	75	14000	15:01	1123	910	MERV 8	2	23.2	35	480	3	ENGINEERED AIR DJS140/O	1, 2, 3, 4, 5, 6, 7, 8, 9
MAU-6560	CAUSTIC SODA BUILDING	4750	HEATING	воттом	9240	1	10	TEFC	9	75	8400	15:01	656	531	MERV 8	2	23.2	35	480	3	ENGINEERED AIR DJS100/0	1, 2, 3, 4, 5, 6, 7, 8, 9

NOTES:

1 PROVIDE 36-INCH 304 STAINLESS STEEL MANUFACTURER CONSTRUCTED ROOF CURB.

2 PROVIDE WEATHER INTAKE HOOD.

3 PROVIDE INTEGRAL SMOKE DETECTOR WITH UNIT. SMOKE DETECTOR SHALL BE POWERED BY MAU.

4 UNIT SHALL BE CAPABLE OF PROVIDING ERROR FAULT CODES TO DIAGNOSE FAILURES. SHALL BE LOCATED AT UNIT. 5 BOTTOM DISCHARGE FOR SUPPLY AIR.

6 UNIT TO BE ALL 316 STAINLESS STEEL CONSTRUCTION.

7 PROVIDE GAS REGULATOR AT UNIT. SET DISCHARGE PRESSURE PER MFR REQUIRI

8 NEMA 4X DISCONNECT SHALL BE PROVIDED BY MANUFACTURER.

9 MANUFACTURER TO PROVIDE NEMA TYPE 4X CONTROL PANEL.

			DID OFT	DESIGNED	
i			BID SET	TPL	
				DRAWN	Ŕ
				CY	8
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				CAG	8
	05/15/2025	AID	ADDENDUM NO. 4	DATE	\
REV	DATE	BY	DESCRIPTION	FEBRUARY 2025	

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(Carolo ®

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	JORDAN VALLEY WATER CONSERVANCY DISTRICT

JORDAN VALLEY WATER TREATMENT PLANT	VERI
FILTER AND CHEMICAL FEED UPGRADES	BAR IS ORIGI
HVAC	0 =
EQUIPMENT SCHEDULES 1	IF NOT

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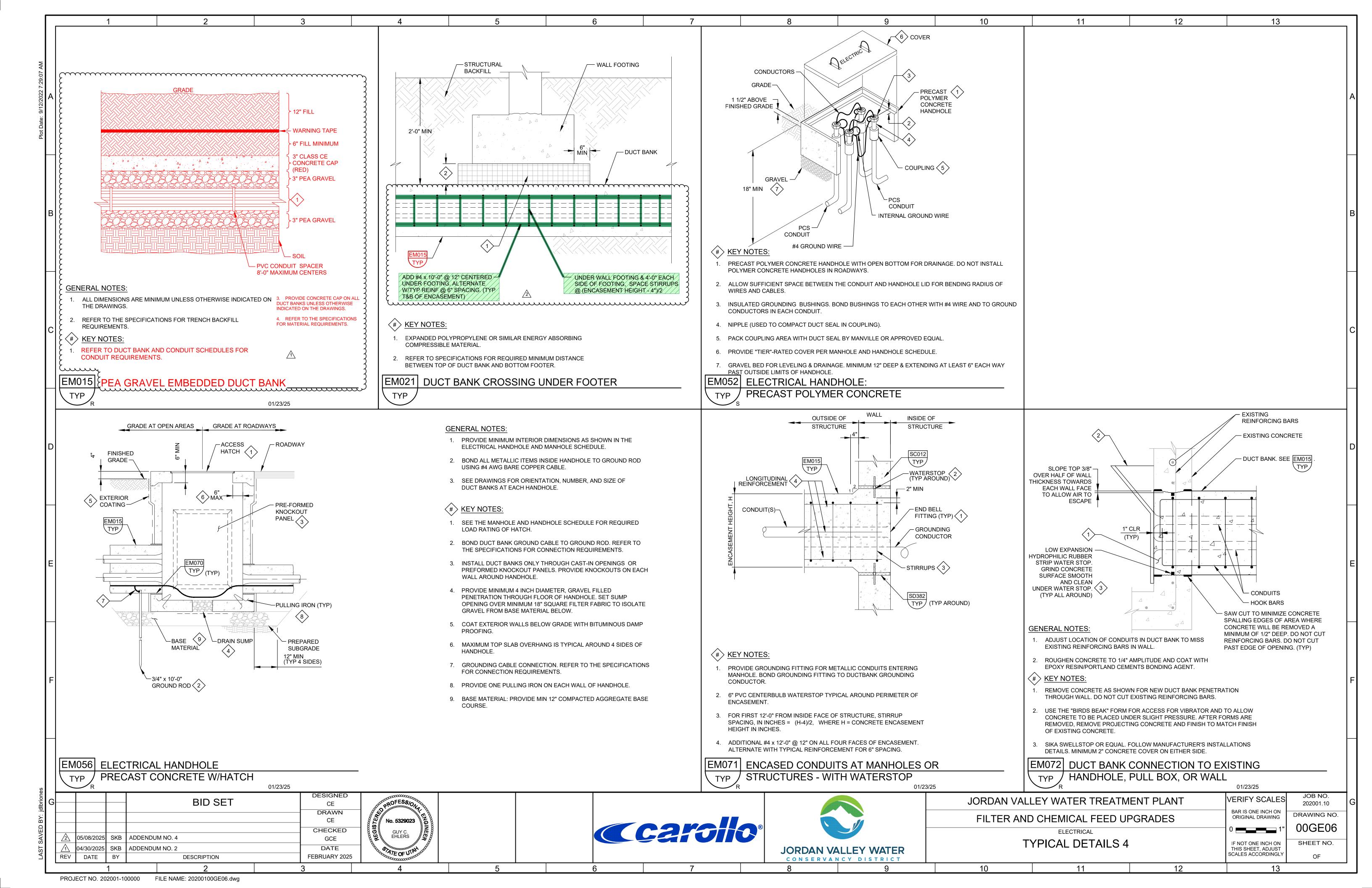
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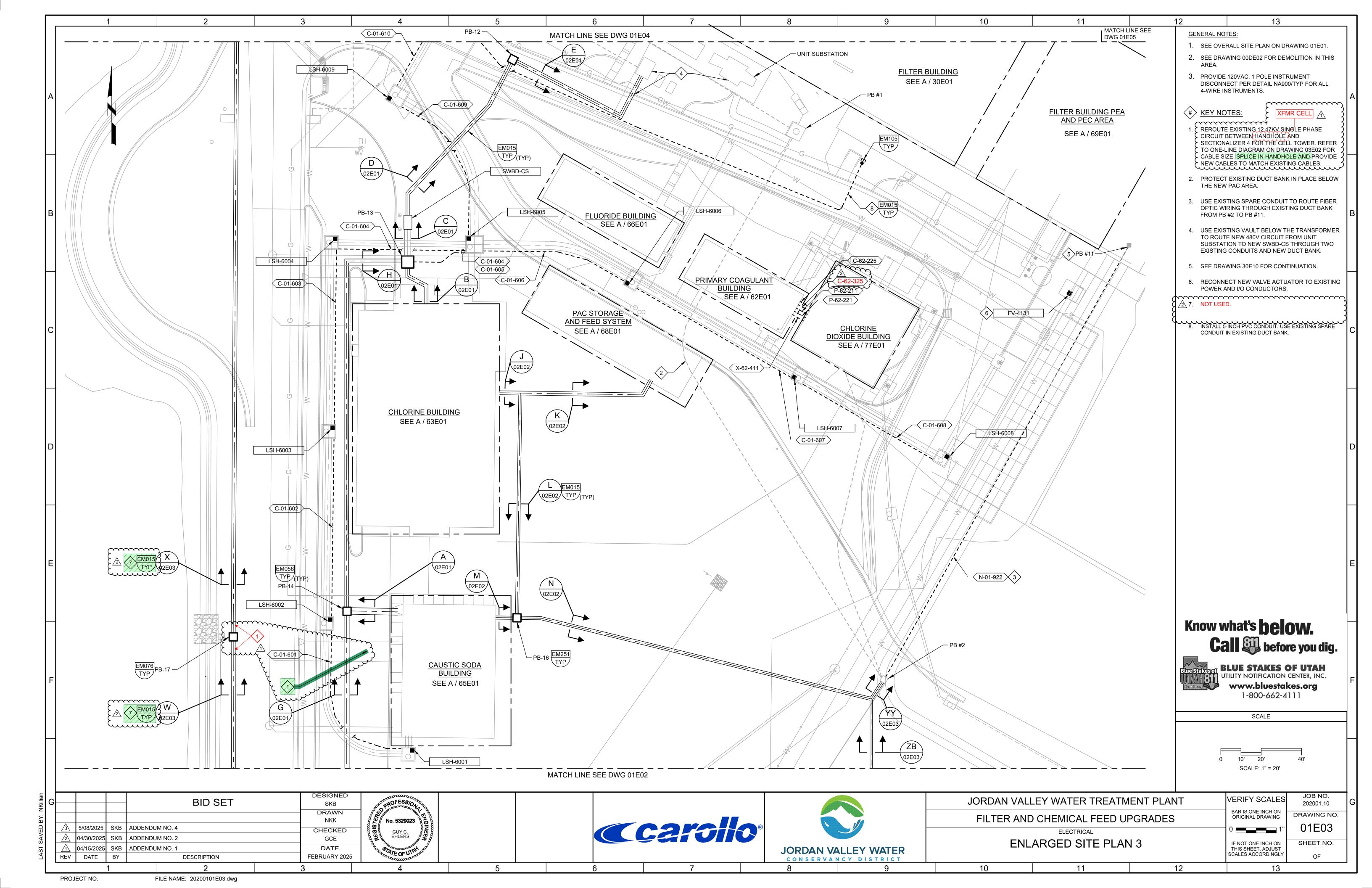
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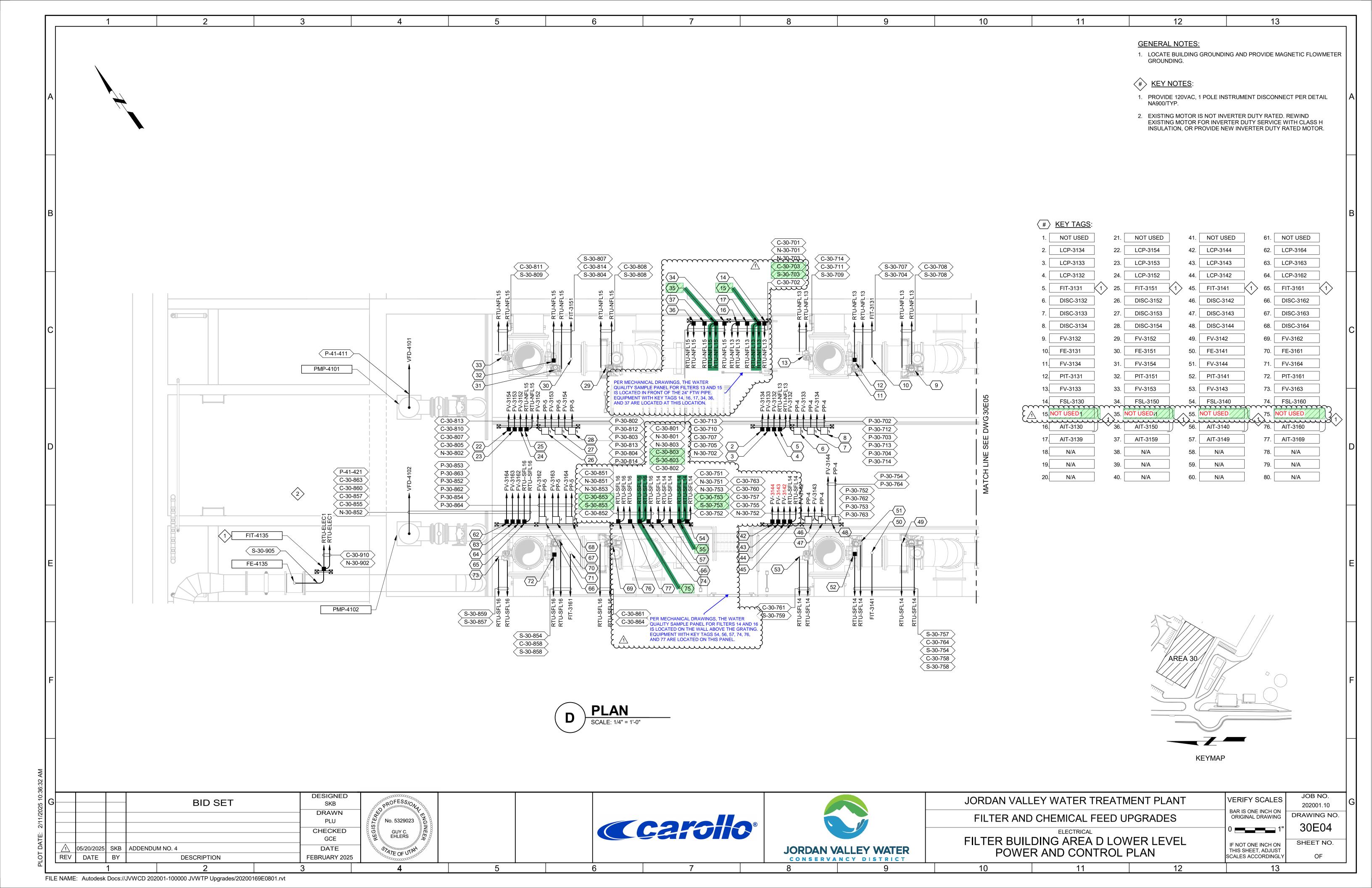
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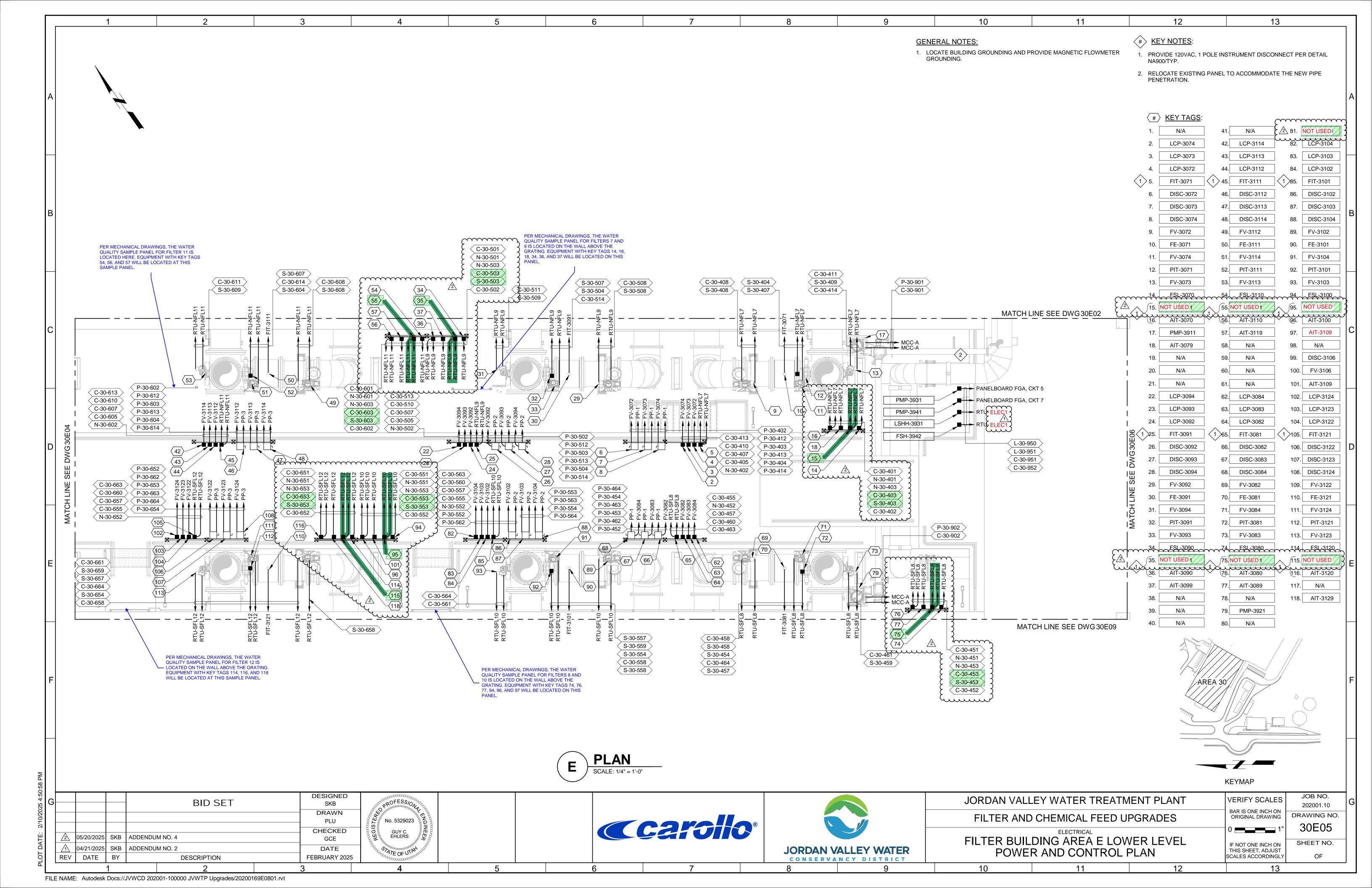
VERIFY SCALES	JOB NO. 202001.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
01"	00GH02
IF NOT ONE INCH ON THIS SHEET, ADJUST	SHEET NO.
SCALES ACCORDINGLY	OF
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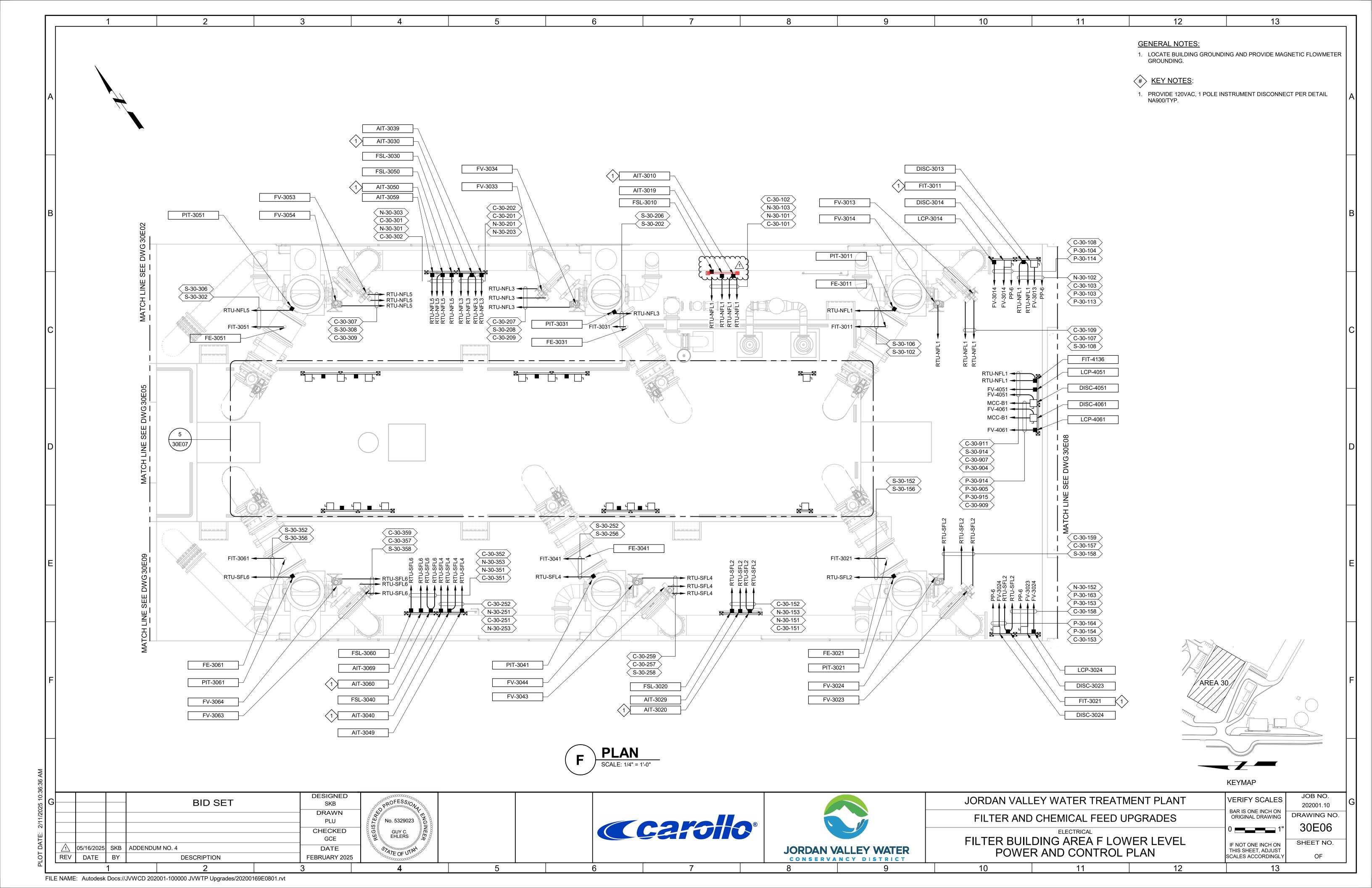
PROJECT NO. 202001-100000 FILE NAME: 20200100GH02.dgn

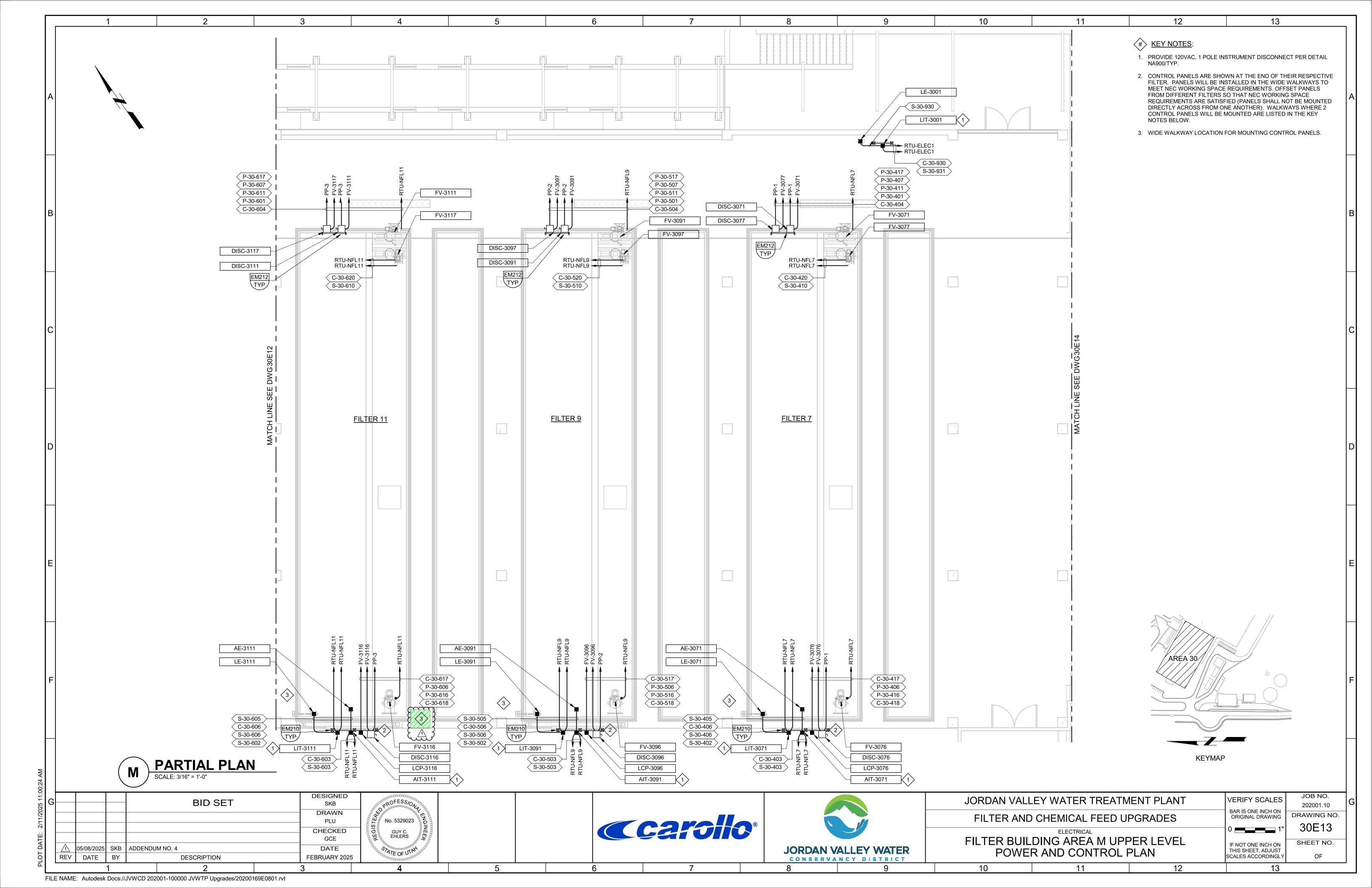


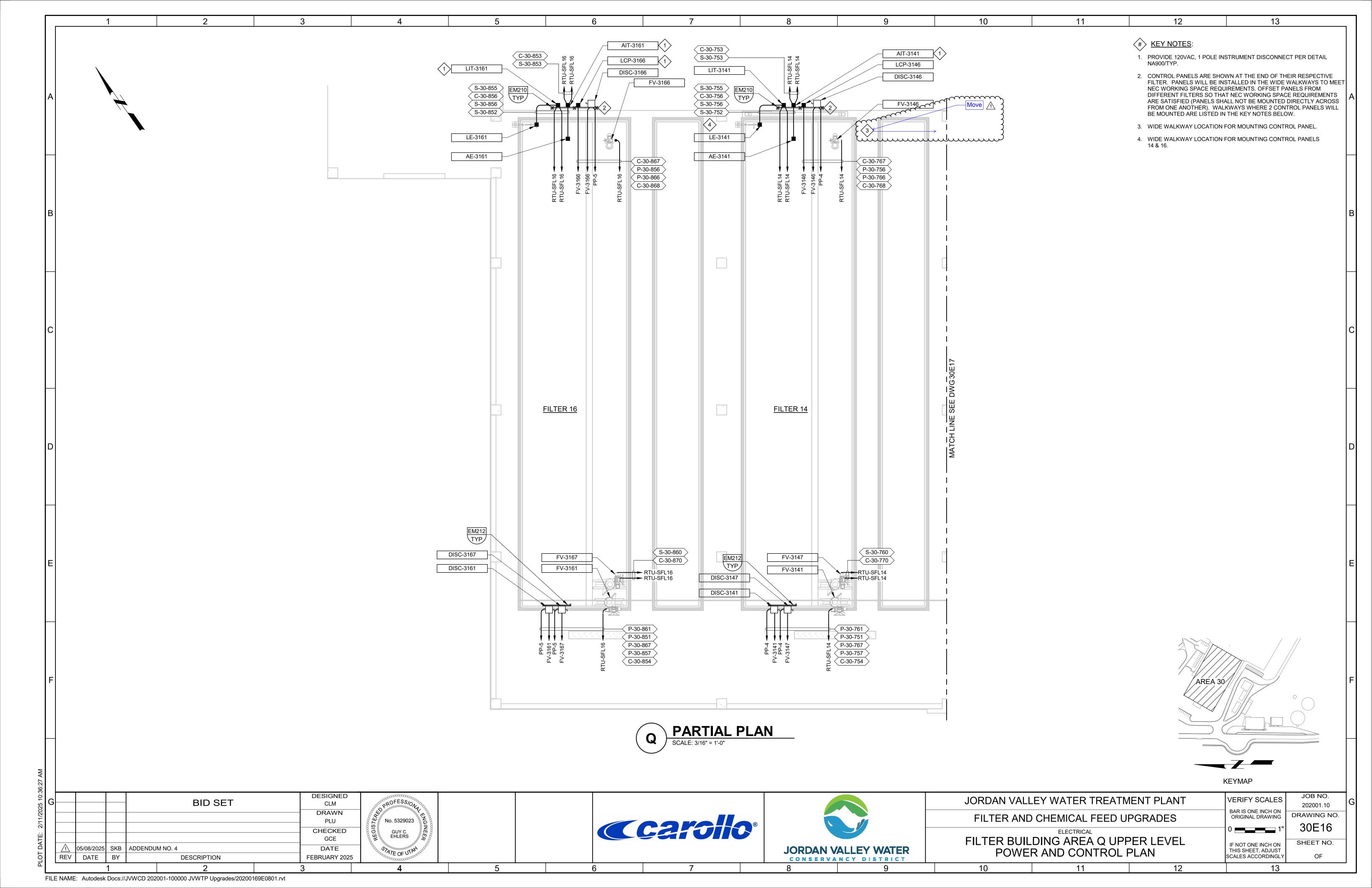


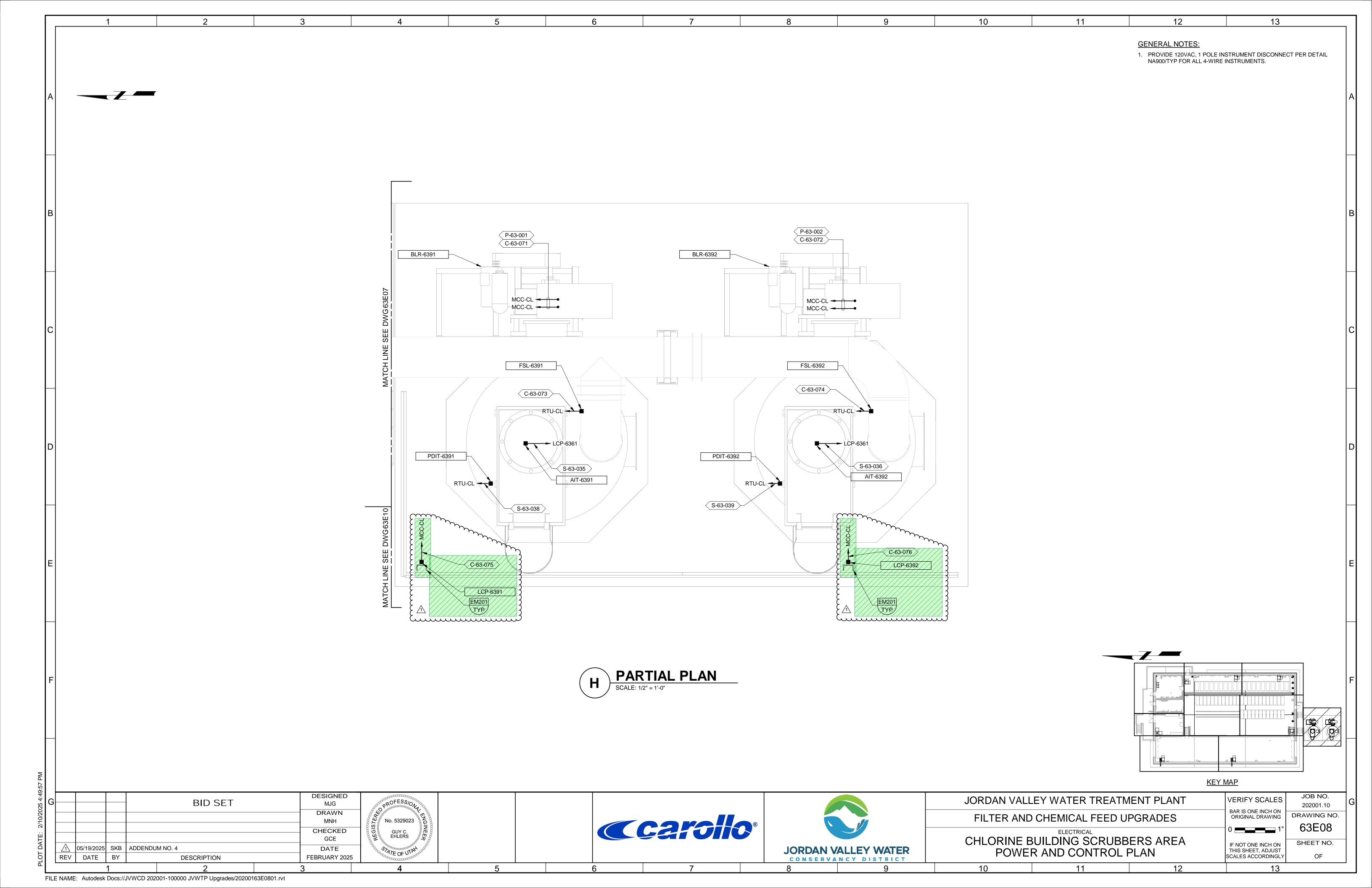


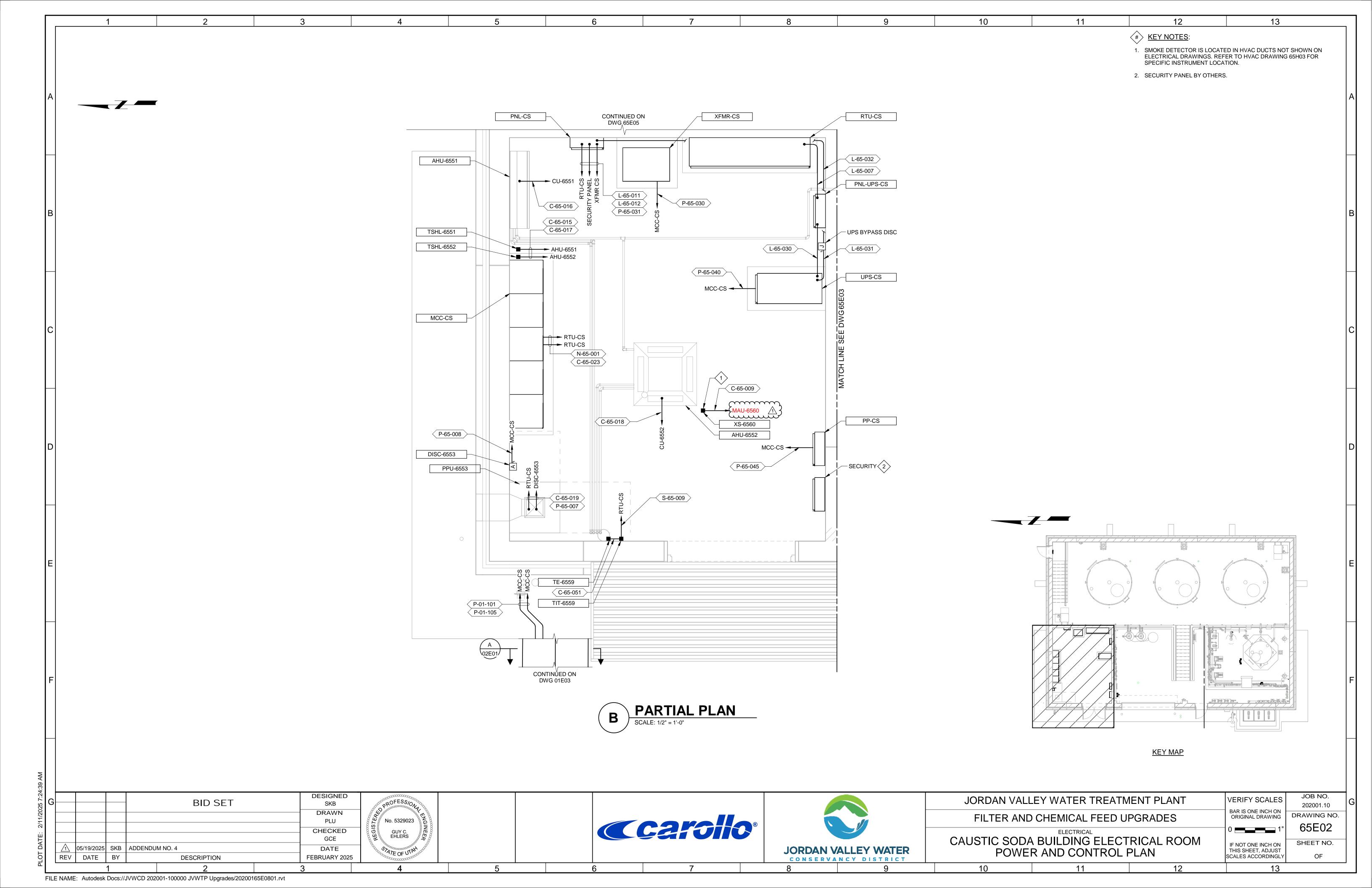


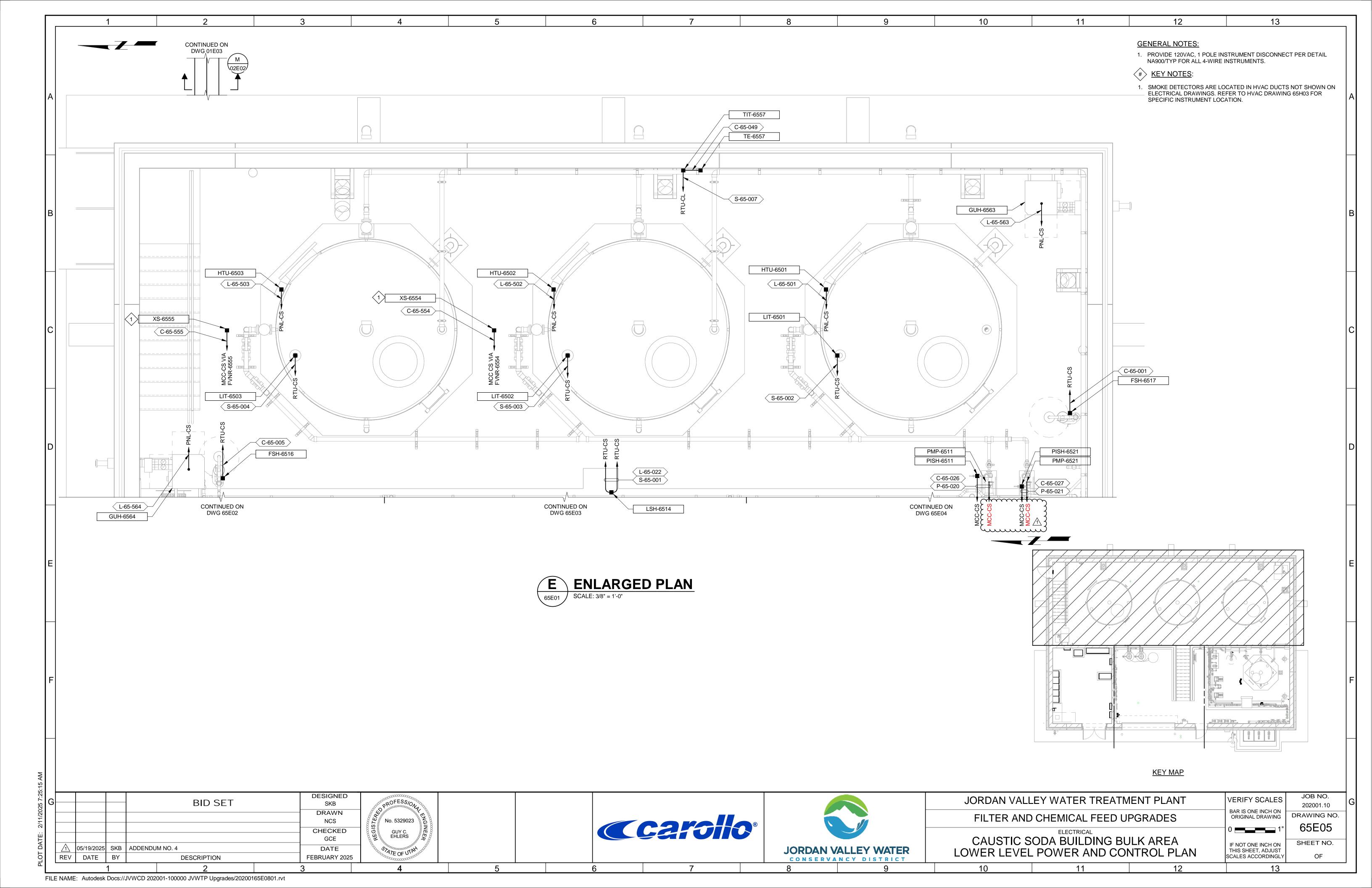


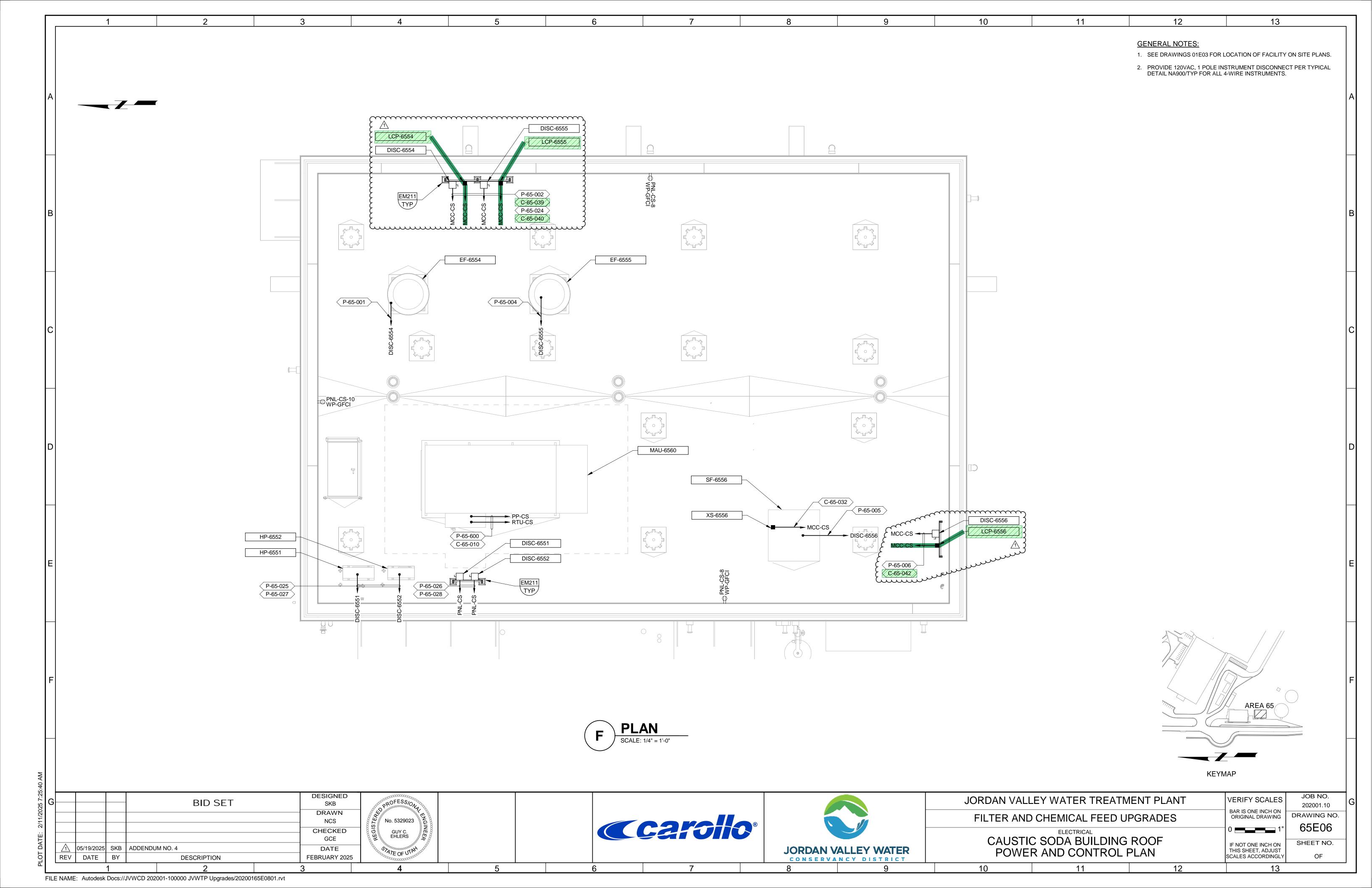


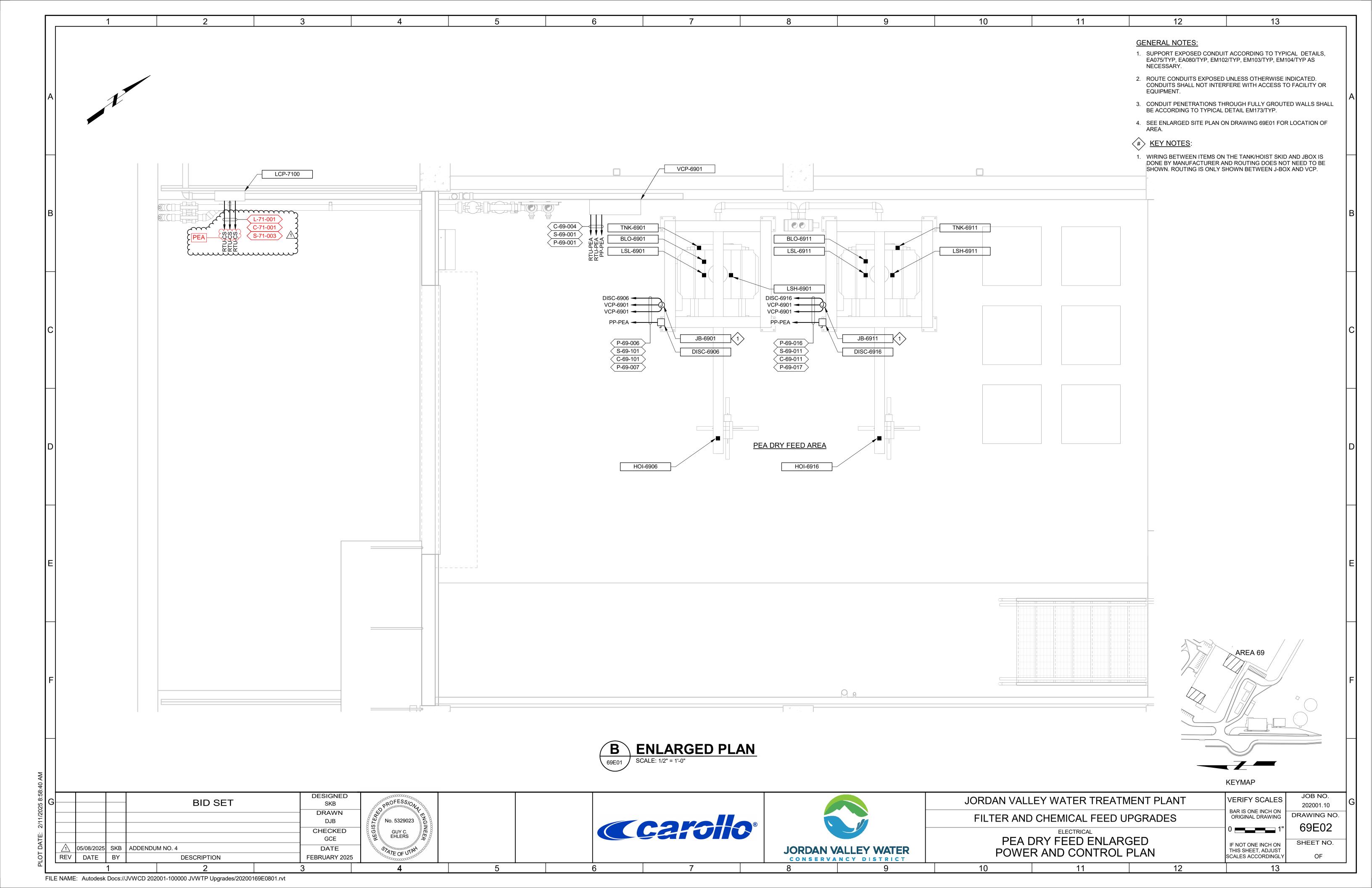


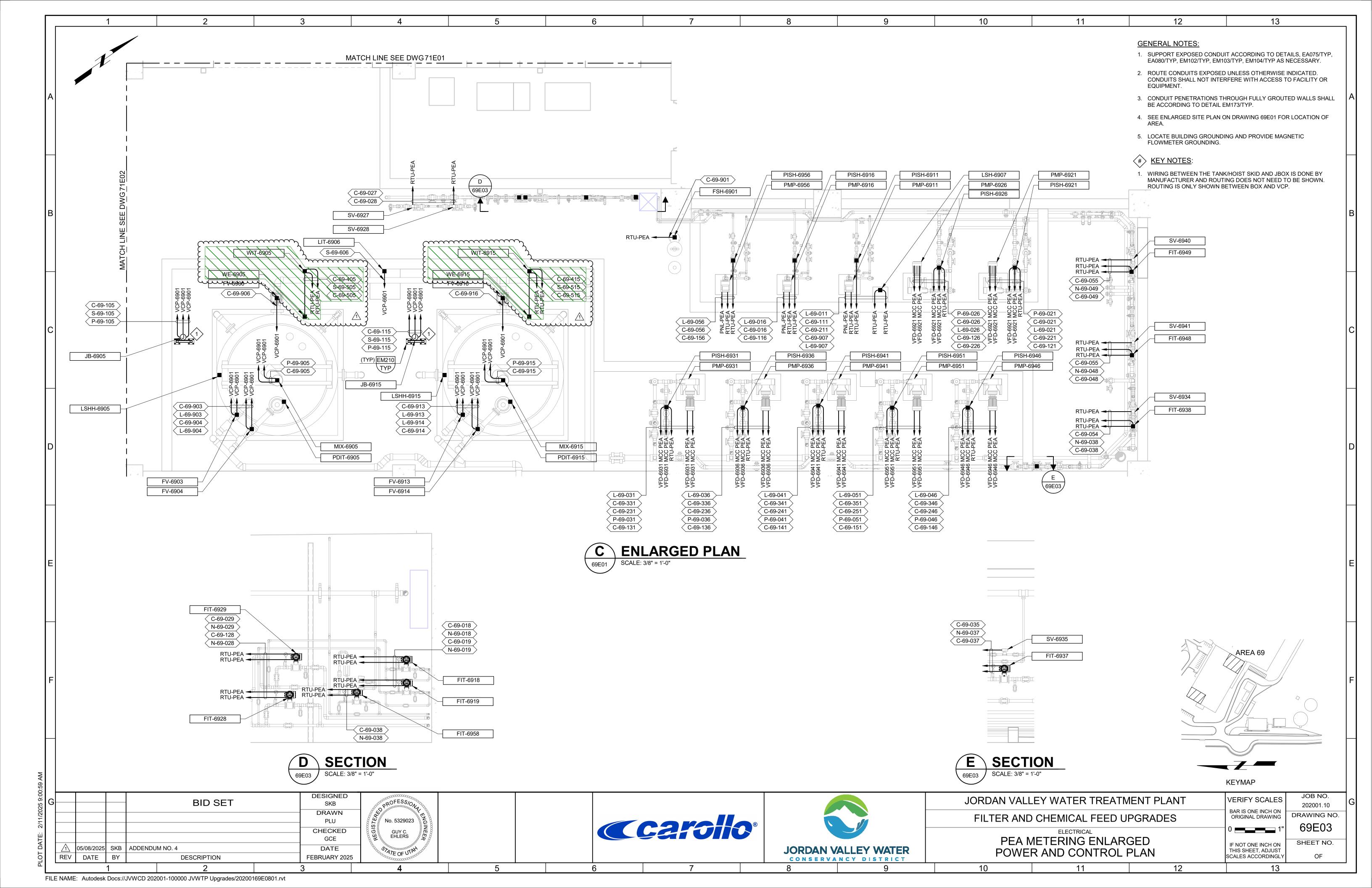


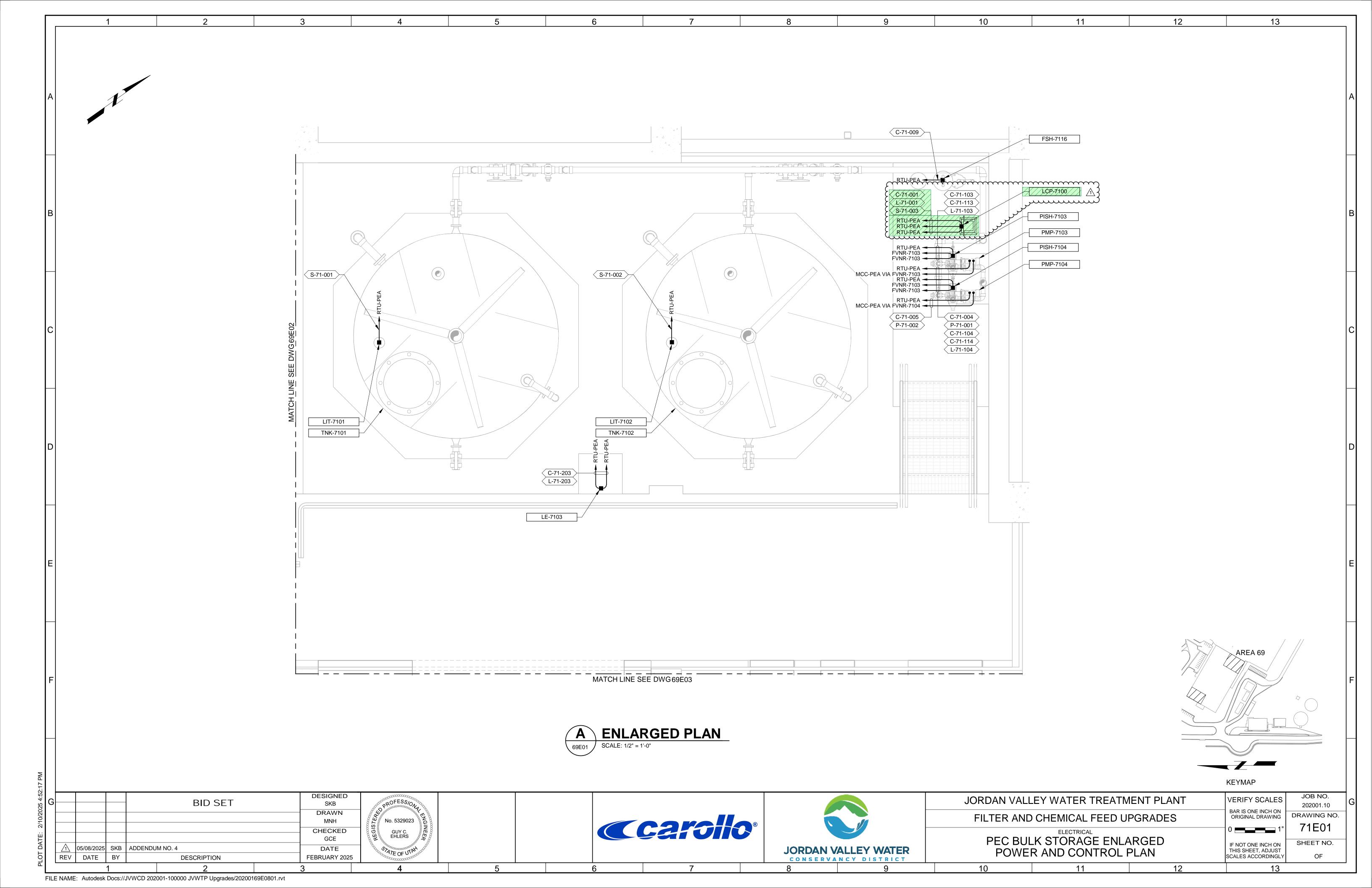


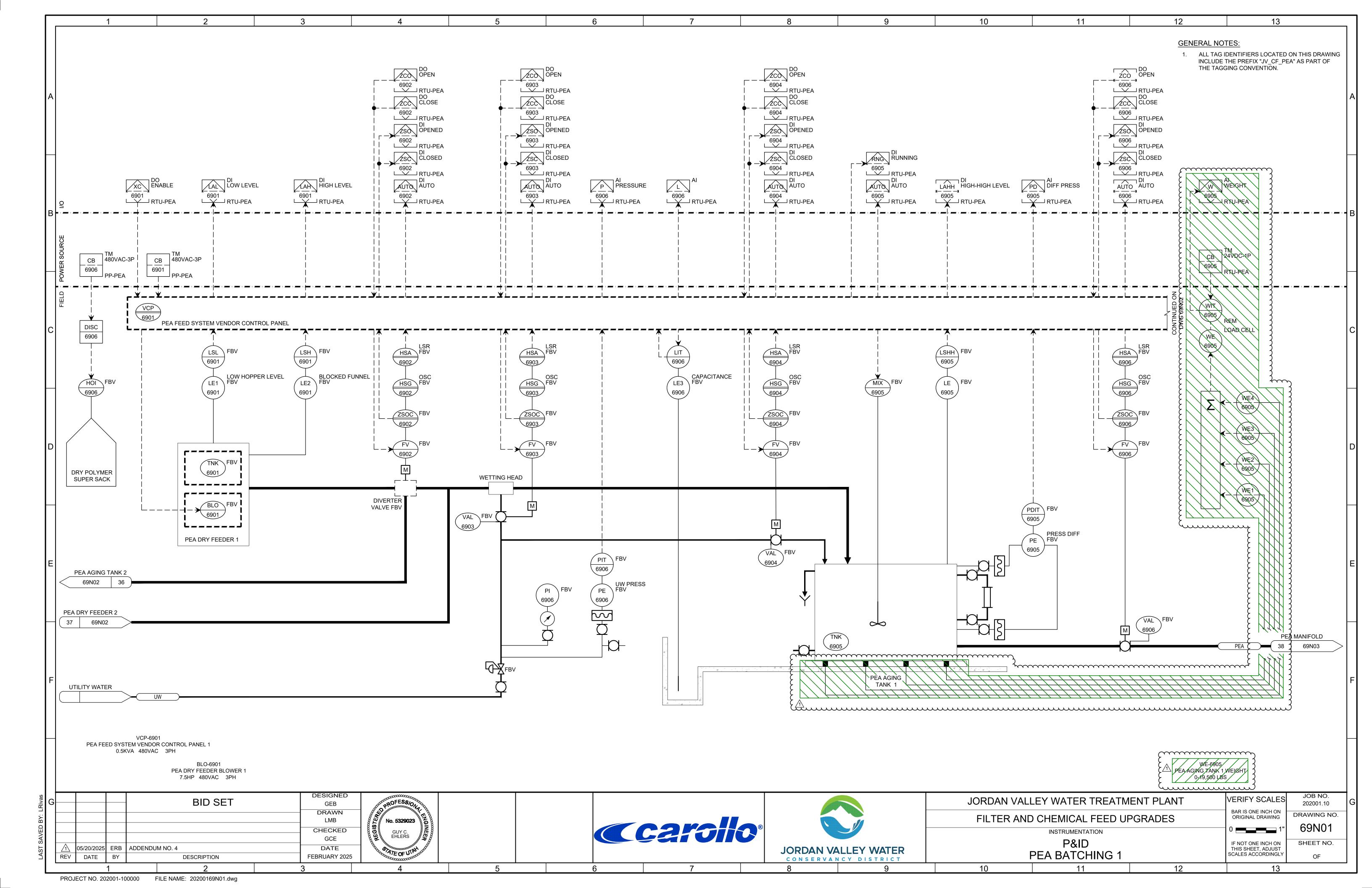


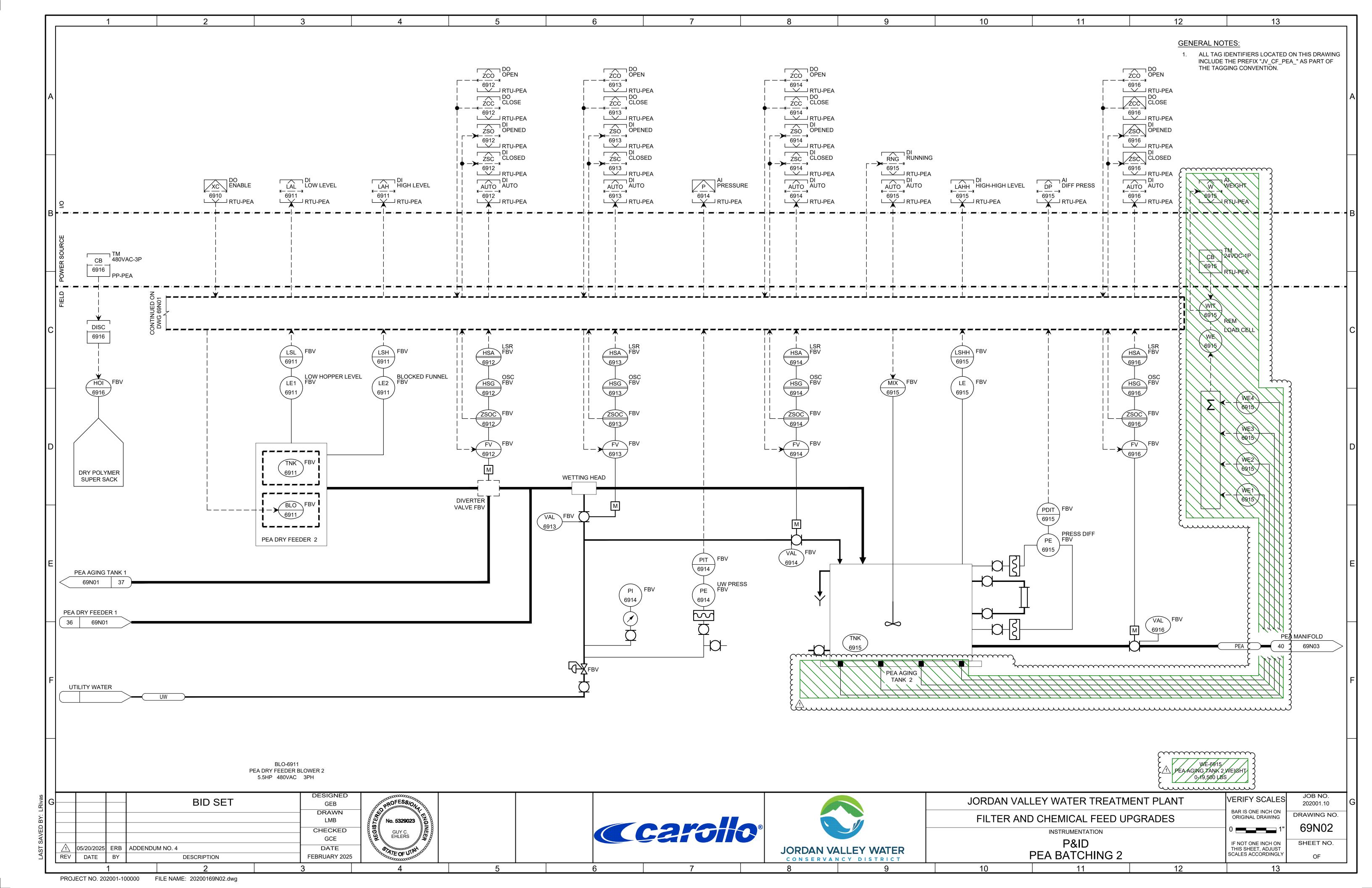


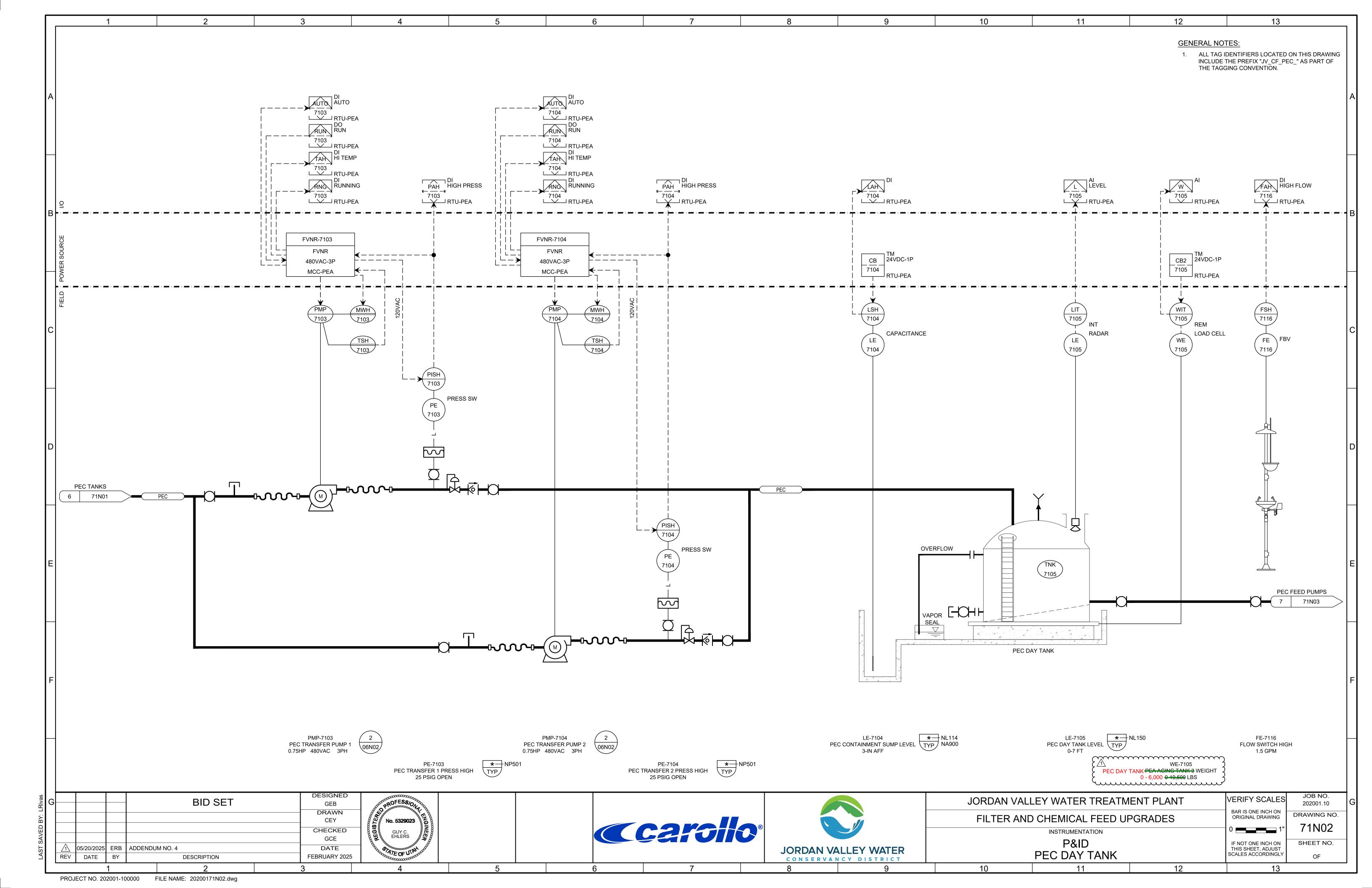












REPLACE ATTACHMENTS A AND B IN THEIR ENTIRETY

ATTACHMENT A Schedule of Surfaces to be Coated

The following schedule is incomplete. Coat unlisted surfaces with same coating system as similar Α. listed surfaces. Contact Engineer for clarification.

EPU-M-1	Metals, exterior, non-immersed
EPX-M-2	Metals, interior, non-immersed
	Metals: immersed and in contact with water being treated for domestic use
EPX-M-2-PWS	(potable water).
EPX-M-6-BG	Metals, below grade or buried pipes
VE-C-1	All concrete surfaces inside the caustic chemical containment areas and tank offloading/fill sump, as shown on the structural drawings, including inside of containment wall surfaces (up to 3 ft above finished floor where indicated), top of containment wall surfaces, sump area, equipment pads, and tank pads
ACR-PVC-1	PVC or CPVC piping subject to direct sunlight
Notes:	

- 1: Non-immersed ferrous metal surfaces include:
 - a. Doors, doorframes, ventilators, louvers, grilles, exposed sheet metal, and flashing.
 - b. Pipe, valves, pipe hangers, supports and saddles, conduit, cable tray hangers, and supports.
 - c. Motors and motor accessory equipment.
 - d. Drive gear, drive housing, coupling housings, and miscellaneous gear drive equipment.
 - e. Valve and gate operators and stands.
 - f. Structural steel.
 - g. Crane and hoist rails.
 - h. Exterior of tanks and other containment vessels.
 - i. Mechanical equipment supports, drive units, and accessories.
 - j. Bare electrical equipment: boxes, exposed conduit, and accessories.
 - k. Pumps not submerged.
 - I. Other miscellaneous metals.
 - m. Exposed (underside) of galvanized roof decking.
- 2: Immersed ferrous metal surfaces include:
 - a. Interior surfaces of ferrous metal tanks.
 - b. Field priming of ferrous metal surfaces with defective shop-prime coat; including nonsubmerged service.
 - c. Bell rings, underside of manhole covers and frames.
 - d. Sump pumps, including underside of base plates and submerged suction and discharge piping.
 - e. Exterior of submerged piping and valves other than stainless steel or PVC piping.
 - f. Submerged pipe supports and hangers.
 - g. Stem guides.
 - h. Other submerged iron and steel metal unless specified otherwise.

		Attachment B	
	Coa	ating Detail Sheet	
Coating System	EPU-M-1		
Coating Material	Two coats epoxy with po	yurethane finish coat	
Substrate	Metal		
Products: One of the following or equal:	Primer	Intermediate Coat	Finish Coat
Carboline	Carboguard 890	Carboguard 890	Carbothane 134 VOC
International Paint	Devran 224V	Devran 224V	Devthane 379
PPG	Amercoat 385	Amercoat 385	Amercoat 450H
Sherwin Williams	Macropoxy 646	Macropoxy 646	Hi Solids Polyurethane
Tnemec	Series 69	Series 69	Series 1095
Service Condition	Interior or Exterior, subject	ct to direct sunlight. Non-immersion.	
Surface Preparation			
General	Prepare surfaces as spec	cified in this Section and as follows.	
Ferrous Metal	Bare surfaces: SSPC-SP10, Near-White Blast Cleaning. Shop primed surfaces: SSPC-SP2, Hand Tool Cleaning or SSPC-SP3, Power Tool Cleaning. Damaged primer or rust: SSPC-SP10, Near White Blast Cleaning and spot prime.		
Nonferrous Metal	SSPC-SP16, Brush Blast Cleaning.		
Galvanized Metal	SSPC-SP16, Brush Blast Cleaning. Test for surface contaminants.		
Surface Profile			
Ferrous Metal	2.5 to 3.0 mils		
Nonferrous Metal	1.5 to 2.0 mils		
Galvanized Metal	1.5 to 2.0 mils		
System Thickness (Dry Film)			
Total	10 to 13 mils		
Primer	4 to 5 mils		
Intermediate Coat	4 to 5 mils		
Finish Coat	2 to 3 mils		
Application			
Special CTR Training	Not required.		

	Atta	chment B		
	Coating	Detail Sheet		
Coating System	EPX-M-2			
Coating Material	Ероху			
Substrate	Metal			
Products: One of the following or equal:	Primer	Intermediate Coat	Finish Coat	
Carboline	Carboguard 890	Carboguard 890	Carboguard 890	
International Paint	Bar-Rust 236	Bar-Rust 236	Bar-Rust 236	
PPG	Amerlock 2/400 Series	Amerlock 2/400 Series	Amerlock 2/400 Series	
Sherwin Williams	Tank Clad HS	Tank Clad HS	Tank Clad HS	
Tnemec	Series 69	Series 69	Series 69	
Service Condition	Immersed, non-immersed, m	oderately corrosive environment.		
Surface Preparation				
General	Prepare surfaces as specified in this Section and as follows.			
Bare surfaces: SSPC-SP5, White Metal Blast Cleaning.				
Ferrous Metal	Shop primed surfaces: SSPC-SP7, Brush-Off Blast Cleaning.			
	Damaged primer or rust: SSPC-SP5, White Metal Blast Cleaning and spot prime.			
Nonferrous Metal	SSPC-SP16, Brush-Off Blast Cleaning.			
Galvanized Metal	SSPC-SP16, Brush-Off Blast Cleaning.			
		-		
Surface Profile				
Ferrous Metal	2 to 4 mils			
Nonferrous Metal	1.0 to 1.5 mils			
Galvanized Metal	1.0 to 1.5 mils			
System Thickness (Dry Film)				
Total	12 to 16 mils			
Primer	4 to 6 mils			
Intermediate Coat	4 to 6 mils			
Finish Coat	4 to 6 mils			
Application				
Special CTR Training	Not required.			

	Atta	achment B	·
	Coating	g Detail Sheet	
Coating System	EPX-M-2-PWS		
Coating System			
Coating Material Substrate	Ultra-high Solids Epoxy Metal		
Products: One of the following or equal:	Primer	Intermediate Coat	Finish Coat
Carboline	Plasite 4500		Plasite 4500
International Paint	No product specified	None Applied No product specified	No product specified
PPG	No product specified	No product specified	No product specified
Sherwin Williams	Sher-Plate	None Applied	Sher-Plate
Tnemec	Series 22	None Applied	Series 22
тпетнес	Series 22	None Applied	Series 22
Service Condition	Immersed, moderately corro	sive environment in contact with Pot	able Water.
Surface Preparation			
General	Prepare surfaces as specified in this Section and as follows.		
Ferrous Metal	Bare surfaces: SSPC-SP5, White Metal Blast Cleaning. Shop primed surfaces: SSPC-SP7, Brush-Off Blast Cleaning. Damaged primer or rust: SSPC-SP5, White Metal Blast Cleaning and spot prime.		
Surface Profile			
Ferrous Metal	2.0 to 2.5 mils		
Primed surfaces	1.0 to 1.5 mils on the intact primer.		
System Thickness (Dry Film)			
Total	16 to 25 mils		
Application			
Special CTR Training	Required.		

Attachment B			
	Coating	Detail Sheet	
Coating System	IEPX-M-6-BG		
Coating Material	Epoxy		
Substrate	Metal		
		1-4	Finish One
Products: One of the following or equal:	Primer	Intermediate Coat	Finish Coat
Carboline	Carboguard 890	Carboguard 890	Carboguard 890
International Paint	Bar-Rust 236	Bar-Rust 236	Bar-Rust 236
PPG	Amerlock 2/400 Series	Amerlock 2/400 Series	Amerlock 2/400 Series
Sherwin Williams	Tank Clad HS	Tank Clad HS	Tank Clad HS
Tnemec	Series 69	Series 69	Series 69
Service Condition	Below grade in contact with s	oil.	
Surface Preparation			
General	Prepare surfaces as specified in this Section and as follows.		
Ferrous Metal	SSPC-SP10, Near White Metal Blast Cleaning.		
Nonferrous Metal	SSPC-SP16, Brush-Off Blast Cleaning.		
Galvanized Metal	SSPC-SP16, Brush-Off Blast Cleaning.		
Surface Profile			
Ferrous Metal	2.5 to 3.0 mils		
Nonferrous Metal	1.5 to 2.0 mils		
Galvanized Metal	1.5 to 2.0 mils		
System Thickness (Dry Film)			
Total	16 mils		
Primer	4 to 6 mils		
Intermediate Coat	4 to 6 mils		
Finish Coat	4 to 6 mils		
Application			
General	Fill all bugholes with a filler/su	urfacer compatible with the coating.	
Special CTR Training	Special CTR Training Not required.		

	Attachm	nent B		
	Coating De	tail Sheet		
Coating System	ating System VE-C-1			
Coating Material	Vinyl Ester - fiber reinforced with	flexible basecoat		
Substrate	Concrete			
Products: One of the following or equal:	Primer	Intermediate Coat	Finish Coat	
International Paint	Manufacturer's recommended	Ceilcote Flakeline 232.	Ceilcote Flakeline 232.	
PPG	Manufacturer's recommended	Nova Rez 370	Nova Rez 370	
Sherwin Williams	Manufacturer's recommended	CorCote VEN	CorCote VEN	
Tnemec	Manufacturer's recommended	Series 252 SC	Series 252 SC	
Service Condition	Immersed, non-immersed, very c Primary or secondary containment Provide flexible base coat and fib	nt indoors or exterior.	required, new or existing construction. norete cracks up to 50 mils.	
General	Prepare surfaces as specified in	this Section and as follows.		
Concrete	Apply flexible complete parge coat over all concrete surfaces after surface preparation is accepted. Completely fill all bugholes with the same material. Brush blast clean, if parge coat is non-polymer modified, after adequate cure per CSM's instructions to produce a uniform anchor pattern. Let concrete substrate cure under warm conditions (minimum of 75 degrees F) for at least 5 days before coating application if using wet abrasive or water jet surface preparation. Sawcut 1/4" minimum deep groove and provide coating termination and transition details as shown on the drawings and in accordance with CSM's standard details including terminations, transitions at corners, cracks, pipe penetrations, terminations at metal embedments, and other details. Vacuum all surfaces to be coated after surface preparation and curing to remove all loose dirt, dust, or other loose materials.			
Existing Coated Concrete	Prepare as for new concrete. Apply a skim coat of a surfacer or filler material to restore the substrate to a coatable condition.			
Surface Profile				
Concrete	ICRI CSP 5.			
Existing Coated Concrete	ICRI CSP 5.			
System Thickness (Dry Film)				
Parge Coat	Completely cover the substrate with flexible parge coat above filled voids by 1/8 inch (125 mils) of thickness.			
Total	60 to 65 mils in addition to the pa	arge coat.		
Primer	Per CSM's recommendations.			
Intermediate Coat	25 to 30 mils with 1.5 oz fiberglas seams flat and remove protruding		roll flat with a wet ribbed roller. Sand all	
Finish Coat	25 to 30 mils. Broadcast 20 to 40 mesh silica sand or aluminum oxide into the wet finish coat to saturation. Remove excess with stiff bristle broom after curing.			
Application		-		
General	Trowel-apply surfacers or filler m displace air and fill bugholes.	aterials CSM's recommendation	s. Work surfacer/filler into all voids to	
Special CTR Training	Required.			
,	1 1			

	Att	achment B	
	Coatin	g Detail Sheet	
Coating System	ACR-PVC-1		
Coating Material	Acrylic		
Substrate	PVC and CPVC pipe		
Products: One of the following or equal:	Primer	Intermediate Coat	Finish Coat
Carboline	Carbocrylic 120	None Applied	Carbocrylic 3359
International Paint	Devcryl 1440	None Applied	Devcryl 1448
PPG	Pitt Tech Primer	None Applied	Pitt Tech
Sherwin Williams	Sher Cryl HPA	None Applied	Sher Cryl HPA
Tnemec	Series 1028 or 1029	None Applied	Series 1028 or 1029
Service Condition	Exterior, exposed to direct sunlight, non-immersed.		
Surface Preparation	Prepare surfaces as specified in this Section and as follows.		
General	Clean to remove loose dirt, dust, or other contaminants. Sand surfaces to achieve a uniform, roughened surface profile. Solvent clean and vacuum to remove loose debris.		
Surface Profile	1.5 to 2.0 mils		
System Thickness (Dry Film)			
Total	4 to 8 mils		
Primer	2 to 4 mils		
Finish Coat	2 to 4 mils		
Application			
Special CTR Training	Special CTR Training Not required.		





JORDAN VALLEY WATER TREATMENT PLANT FILTER AND CHEMICAL UPGRADES JORDAN VALLEY WATER CONSERVANCY DISTRICT WEST JORDAN, UTAH

Bidder RFI Responses May 22, 2025

		1. Tay 22, 2025
No.	Question	Response
	Paragraph 2.13 Mix/Age Tank: Paragraph 2.13.A States the tanks shall be vertically oriented with a diameter of 8'	The scales under the PEA aging/mix tanks have been removed from the project, see Addendum 4. Tanks should
	and a sidewall height of 6 feet. Paragraph 2.13.B States the tanks shall be on Force Flow Procell load cells per	remain cylindrical, sloped flat, open top per Specification 11256 and conform to the anchor requirements
1	Section 17622. Paragraph 2.13.C States Mix tank shall be constructed of fiberglass and shall be cylindrical, sloped	outlined in 13206A 1.03.B. Other scales on the project should remain and must conform to the seismic anchorage
	flat, open top. Being the tank is 8' diameter and located on Procell load cells it will be required to have a	requirements outlined in Specification 17622 1.03.D.
	Dish/Dome bottom with 4 FRP legs, not a cylindrical slope flat bottom design. Note 8' foot Platform scales are	
	not commercially available. Please review and confirm that Dish/Dome bottom with 4 FRP legs is acceptable.	
	Paragraph 1.01.D.3 – This paragraph references as specified in Section 13206A - Fiberglass Reinforced Plastic.	Specification 13206A has been updated to include details for the Polymer Mix/age tanks in this addendum.
	Upon review of section 13206A – Fiberglass Reinforced Plastic Tanks there appears to be no specific details for	
2	the Polymer Mix/age tanks, only other chemicals. Please review and confirm if this section 13206A pertains to the	
	polymer mix /age tanks or if the Polymer Blending and Feed equipment supplier shall provide their design	
	standard for the application.	
	Spec 16130 3.03 A 17 a 1 states to install all underground conduit in concrete-reinforced duct bank as specified	Refer to Addendum 2. New duct banks are to be pea-gravel bedded duct banks. Duct banks are to be concrete
	in 16133. 16133 2.02 C states to provide reinforced concrete duct banks unless otherwise indicated on the	capped unless otherwise indicated. Per specification 16130 3.03 E.4, conduits in these duct banks are to be
	drawings. These conduits can be PVC Sch 40 per 16130 3.03 E 2. Every electrical site plan (01E02 - 01E06) that	PVC40.
3	shows duct bank is labeled as typical detail EM015 which is direct buried, sand encased conduit, not concrete	
	reinforced. Spec 16130 3.03 E 3 states that direct buried and sand-bedded duct bank conduits are to be PCS	
	conduit. That's a lot of large diameter PCS conduit. Please confirm that all duct banks on the site drawings are	
	to be a direct buried duct banks per detail EM015 with PVC coated rigid conduit per the specs. If so, does 16130	
	I 2 for expansion/deflection fittings for straight runs of 200' of metallic conduit apply to direct buried PCS conduit	
	We request access to the 3D files in Navisworks. We would sign a waiver acknowledging that they are not part of	A link has been provided to download the 3D files. A waiver must be signed acknowlings tha they are not part of
4	the contract documents and are not to be relied upon for bidding purposes.	the contract documents and are not to be relied upon for bidding purposes to access the file.
5	Can new wiring be routed on existing cable trays?	New wiring may be routed on existing cable trays provided that NEC requirements are met.
	Drawing 63E08 shows LCP's 6391 and 6392. These LCP's do not appear in the P&ID's. Please provide additional	LCP-6391 and LCP-6392 will be removed by a markup.
6	information.	, a manap.
7	Drawing 65E03 shows LCP 6560. This LCP does not appear in the P&ID's. Please provide additional information.	This will be addressed by a markup.
'		
8	Drawing 63E06 shows LCP's 6554, 6555 and 6556. These LCP's do not appear in the P&ID's. Please provide	Engineer assumes that the bidder meant drawing 65E06. LCPs will be addressed by a markup.
-	additional information. PRUD 71N01 shows LCD 7100. This LCD appears in the layout drawings on 71E01 as well as 60E02. Please slarify.	The LCD 7100 shown on drawing 60502 is the sowert leasting Conduit to an additional Conduit to the source of the s
9	P&ID 71N01 shows LCP 7100. This LCP appears in the layout drawings on 71E01 as well as 69E02. Please clarify.	The LCP-7100 shown on drawing 69E02 is the correct location. Conduit tags and destinations will be clarified with
= +	AUTI DADA LOAGA L	markups.
10	AIT's 3131 and 3151 are shown on drawings 30E04 and 30E12. Please clarify.	AIT-3131 and AIT-3151 have been removed from drawing 30E04 and are only shown on drawings 30E12.
11	AIT's 3141 and 3161 are shown on drawings 30E04 and 30E16. Please clarify.	AIT-3141 and AIT-3161 have been removed from drawing 30E04 and are only shown on drawing 30E16.
12	LCP 3106 and AIT's 3101 and 3081 are show on drawings 30E05 and 30E17. Please clarify.	AITs -3111 and -3081 have been removed from Drawing 30E05 and are only shown on 30E17.
13	AIT's 3071, 3111, 3091 and 3121 are shown on drawings 30E05 and 30E13. Please clarify.	AITs -3071, -3091, -3111 and -3121 have been removed from Drawing 30E05. AITs -3071, -3091 and -3111 are
ļ		only shown on drawing 30E13 and AIT-3121 is only shown on drawing 30E17
14	Typical Detail EM021 refers to Typical Detail EM001. This detail has not been provided. Please provide detail	Typical Detail EM021 should refer to EM015. This has been addressed by markup.
17	EM001.	
	Tag # C-62-235 runs between the Primary Coagulant Building and the Chlorine Dioxide Building on sheet 01E03	Conduit C-62-235 on drawing 01E03 should be C-62-325.
15	but has not been included with the Conduit schedule. Please clarify the conduit size, conductors, and connections	
	for this run.	
	There is some conflict in the drawings regarding the electrical disconnects for HVAC equipment. There are notes	HVAC manufacturer to provide electrical disconnects for HVAC equipment.
	in the electrical drawings that state to connect power to the integral disconnect at the HVAC equipment, but the	
16	equipment schedules in the HVAC drawings state that the electrical contractor is to provide the disconnect. EF-	
	6357 & SF-6368 (00GH02 & 63E11) are some examples. Please clarify whose scope the disconnects fall under to	
	avoid scope gaps or double coverage.	
	For the existing panels in the filter building (PP-1 thru PP-8) is the intent to reuse the existing circuit breakers, or	The intent is to reuse the existing circuit breakers.
17	are we to supply new circuit breakers?	The intent is to reuse the existing circuit breakers.
18	Are there any ISA data sheets for weigh scales WE6301 through WE6320?	Weigh scales are vendor supplied and as such do not come with ISA data sheets.
10	Can the filter media specification (13226) be relaxed as follows:	These criteria are not acceptable. Contractor shall supply filter media as indicated in specification 13226 Filter
		1
40	• The Hardgrove Grindability would need to be < 45 in lieu of < 38.	Media. As indicated in 13226.1.04.D.3, media received at the project site that does not meet the specified
19	• The Specific Gravity needs to be > 1.6 in lieu of 1.4- 1.7.	requirements, certified test results, or acceptance criteria may be rejected at the sole discretion of the Engineer
	• Particle Diameter 2.0 mm to be < 1% greater than 2.00 mm and Particle Diameter .65 mm to be < 1% less than	and shall be replaced with approved media at no additional cost to the Owner.
	.65 mm.	
	Filter media requires a lot of storage space, since you cannot stack pallets, is that something there is a	Filter media may be stored on-site, within the Contractors allocated staging area or off-site in a secure facility
	contingency for?	acceptable to the Owner as indicated in the general conditions and amended by Addendum 2. Storage
		conditions shall be as specified, including off the ground, protected from weather and covered to prevent
20		contamination. Storage space within existing plant facilities is not generally available and should not be relied
		upon by the Contractor. The Contractor is also reminded that storage of super sacks outside may cause
		premature failure due to UV degradation. Per 132263.02.B.1 any filter media which has become contaminated,
		either before or after placement, shall be removed and replaced.
24	Are hold down straps required for extra storage roller trunnions, or only on scales that have in operation ton	Please provide hold down straps for each trunnion and scale, totaling 68, per the drawings.
21	containers?	
33	Regarding question and response #3 from Addendum 1. Will the cost for the Herriman City Building permit be	Per General Conditions 6.06, the contractor will be responsible for all permitting costs.
22	negotiated and covered by JVWCD?	
23	What is the status of the plan review process for the Herriman City Building Permit?	Plan review occurs during the permit application process.
	·	
	the Backwash Tank Vault. This detail 4 on sheet 41S04 shows roughly a 10' over-excavation with a Membrane	
	Liner to 10' around the perimeter, ~10' of ABC bedding to 10' around the perimeter, 4" Perforated Drain	
24	Pipe/Leak Detection 5' around the perimeter, a Capillary Barrier under the structural concrete, and sloped up to	
	from subgrade to existing grade. Will you clarify this is the extent you want bedded under this vault? This would	
	make the over-excavated nearly 30' deep and put the sloping well past the limits of excavation shown on the	
	Specification 02050-2.02-B describes what requirements the "Native Soil Select" must meet, specifically fines	The soil resistivity requirement has been removed in addendum #2. Laboratory results for the soil borings apply
	between 5% and 15%, Liquid Limit less than 20, Plasticity Index of less than 10, and Resistivity a minimum of	specifically to layers of the profile that contain small enough particles to warrant testing (i.e. clay layers). These
	5,000 ohm-cm. In the Geotechnical Report, Table 5 on page 16 of 36, it shows the Resistivity of these materials be	
	far less than the required 5,000 ohm-cm (aside from a 2.5' section of B-01). Also in the Laboratory Results	excavation. The rest of the native soil is suitable for use as fill material, as stated in the geotechnical report.
	1	, ,
	section, Minimum Laboratory Soil Resistivity, pH of Soil for Use in Corrosion Testing, and lons in Water by	Furthermore, borrow material from the area west of the drainage ditch are subject to engineer approval as stated
	Chemically Suppressed Ion Chromatography it shows the Resistivity of most of the materials tested from the	in specification section 2300 3.03 A, and will require testing to ensure that it also meets these requirements.
25	bore holes to be well below the 5,000 ohm-cm requirements laid out in Specification 02050-2.02-B. In the	
	Laboratory Results section, Liquid Limit, Plastic Limit, and Plasticity Index of Soils for each bore hole shows we are	
	with almost double the Liquid Limit allowed per Specification 02050-2.02-B. In the Geotechnical Report, section	
	7.1.5 it states the "soils are considered suitable or practical for reuse onsite as grading or structural fill." Will you	
	please clarify, based on the low resistivity and higher Liquid Limits shown in the soils report, if these materials are	
	suitable, or based on these factors, if they are actually not suitable as the Geotechnical report states? This would	
	require a significant export/import on this project if they are in fact, not suitable.	
	On Drawing 65M04 Sections G & H the 3" CD line is shown as PVC in one section and CPVC in the other. Please	The CD lines should all be CPVC in the Caustic Soda Building. This has been updated in Addendum 4.
26	clarify.	
		Vernous Labellia DVC and data IACCOC has confluenciate in the Court Code Daillian about the CDVC This
-	On Drawing 65M04 detail F the vapor seal and overflow piping are called out as PVC, please confirm material	Ivapor seal shall be PVC per detail MC106, but overflow piping in the Caustic Soda Building should be CPVC. This I
27	On Drawing 65M04 detail F the vapor seal and overflow piping are called out as PVC, please confirm material types for these chemicals are suitable for PVC.	Vapor seal shall be PVC per detail MC106, but overflow piping in the Caustic Soda Building should be CPVC. This has been updated in Addendum 4.
	types for these chemicals are suitable for PVC.	has been updated in Addendum 4.
27		1 ' ' '

	Sample panel detail on 30M17 shows a rotameter dedicated to each of the 2 instruments, this does not match	The P&ID is correct, showing a single rotameter with integrated flow switch per filter (i.e., one per pair of
29	with the P&ID shown on 30N03 which has a single rotameter with both instruments in series after the meter.	instruments). The number of rotameters is correctly capatured in the list of instruments. A note has been added
29	Please provide guidance to which is right and if the correct number of rotameters is captured in the specification	to 30M17 as part of Addendum 4.
	list of instruments.	
	On sheet 30M13 there is a typical callout for a 30" filter backwash isolation valve. Should this be a 36"?	The typical callout for the filter backwash isolation valve on 30M13 should be 36". The backwash isolation valves
30		for Filters 1-6 are 36", whereas the backwash isolation valves for Filters 7-16 are 30". The typical callout on 30M13
		has been updated as part of Addendum 4.
	There is a Tag #C-62-2235 that runs between the primary coagulant building and the chlorine dioxide building	Conduit C-62-235 on drawing 01E03 should be C-62-325.
31	on Sheet 01E03 but has not been but has not been included in the conduit schedule. Please clarify conduit size,	
	conductors, and connections for this run.	
	Addendum 2 downsized the generator to 200KW. The specification for the generator is requiring a Dual Fuel	Yes, a natural gas only generator will be acceptible. Specification language has been adjusted to allow this.
32	Natural Gas / Propane unit with automatic switchover. Caterpillar does not offer a product that does dual fuel in	
32	this size range. Additionally, Caterpillar has only one dual fuel offering but it is in the 450KW size range. Would	
	it be acceptable for Caterpillar to quote a 200KW natural gas generator without the dual fuel option?	